From:	Tim Cook
Sent:	12 December 2023 12:17
To:	Licensing EDDC;
Subject:	Description and products.
Subject.	Description and products.
Follow Up Flag:	Follow up
Flag Status:	Completed

Categories:

Hi Emily,

As requested please see the details for the recent conversion to vehicle WJ23 PVF. Please let me know if I have missed anything off and I will also forward the missing data sheets as soon as they land in my inbox.

Firstly the vehicle came to me as an empty panel van.

The window panels were cut out of the van in the same way they would be in the factory leaving all structural supports in place. Once the cut edges weren't treated and trimmed with protective knock-on trim the glass primers were applied as per the manufacturer's requirements to both the body of the van and the glass itself. Once this was done the windows were bonded in using (Wayside Adhesives Master bond 1Hr) This product is manufactured for the bonding of aftermarket windows into vehicles. Please see attached data sheet. The glass fitted in the van is purchased from a specific van window supplier specialising in aftermarket glass. The glass is made specifically for this vehicle to give a factory finish. Please see the Data Sheet on this.

The Vehicle was then lined out using a four way stretch carpet (Easy Liner) to the sides and roof. This was applied using (Trim Fix) high temperature spray adhesive specifically designed for automotive use. Data sheets attached.

The seats are vehicle specific and original to the vehicle with integrated seat belts. They fit in the factory position and use the original M12 Torx55 Bolts and M12 nyloc nuts with underbody support plates.

Each seat has two heavy duty floor rails that require a minimum of three bolt fixings per rail but some have four or five depending on the underbody and location in the vehicle.

The second row of seats have the option to be rear or forward facing utilising the original manufacturers floor rails. The Third row of seats are only forward facing as per the manufacturers floor rails.

Many Thanks



W: www.vanformers.co.uk



F: <u>www.facebook.com/VanFormers</u>

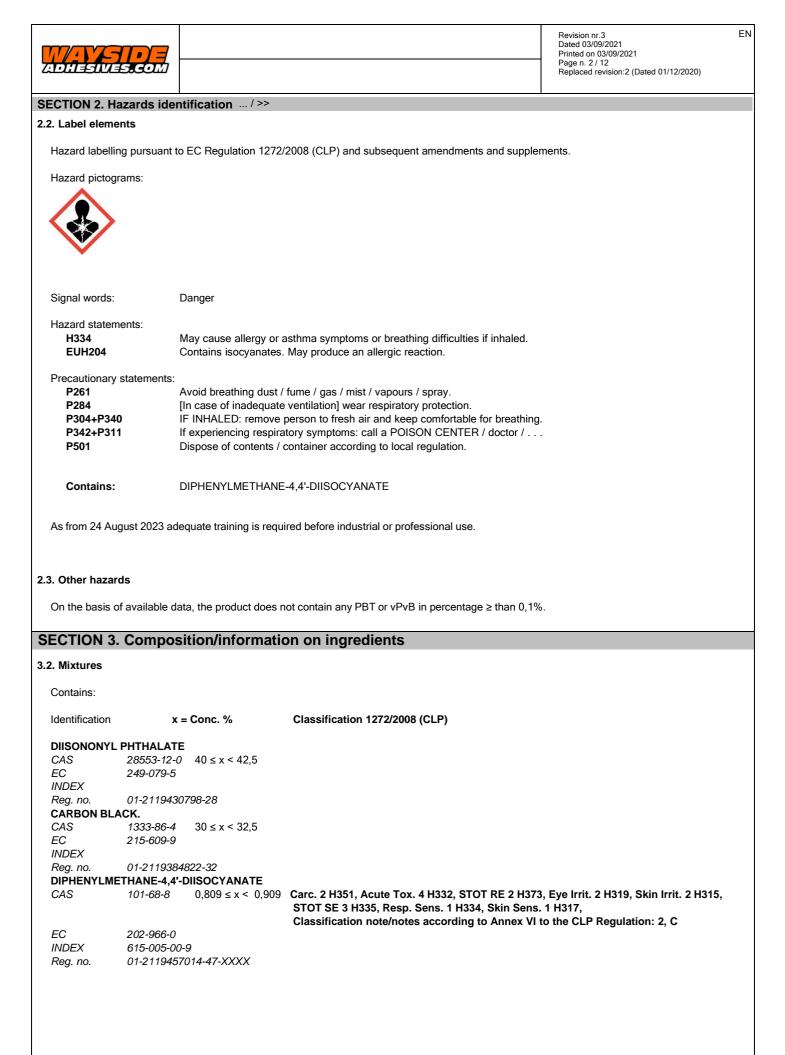


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# Safety Data Sheet According to Annex II to REACH - Regulation 2015/830

ECTION 1. Identification of the sub						
Product name	MASTERBOND 1HR					
. Relevant identified uses of the substance or r	nixture and uses advised a	gainst				
Intended use	One component adhesiv	e for the automotive indust	ry.			
	Industrial	Professional	Consumer			
SEALANTS AND ADHESIVES FORMULATIONS IN INDUSTRY	SU: 10. ERC: 2. PROC: 3, 4, 5, 8a, 8b, 9. PC: 1.	_	_			
INDUSTRIAL APPLICATIONS OF SEALANTS AND ADHESIVES	SU: 17, 19. ERC: 5, 8b. PROC: 10, 8a, 8b. PC: 1.	SU: 17, 19. ERC: 5, 8b. PROC: 10, 8a, 8b. PC: 1.				
CHEMICAL SUBSTANCE USE IN LABORATORY, INDUSTRIAL	PROC: 15. PC: 1, 21.	_				
. Details of the supplier of the safety data sheet	t					
Name	WAYSIDE ADHESIVES LTD					
Full address District and Country	23 MAIN ROAD, RADCLIFFE ON TRENT, UK					
e-mail address of the competent person	Tel. 01159 33 33 21					
responsible for the Safety Data Sheet	INFO@WAYSIDEADHES	VES.COM				
. Emergency telephone number						
For urgent inquiries refer to	WAYSIDE ADHESIVES L	TD.				
ECTION 2. Hazards identification						
. Classification of the substance or mixture						
The product is classified as hazardous pursuant to and supplements). The product thus requires a sat Any additional information concerning the risks for	fety datasheet that complies	with the provisions of (EU) R	egulation 2015/830.			
Hazard classification and indication: Respiratory sensitization, category 1	H334	May cause allergy or difficulties if inhaled.	asthma symptoms or breathing			





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## SECTION 3. Composition/information on ingredients .../>>

2,2 - DIMOR	PHOLINODIET	HYL ETHER	
CAS	6425-39-4	0,45 ≤ x < 0,5	Eye Irrit. 2 H319
EC	229-194-7		
INDEX			
Reg. no.	01-2119969	278-20-xxxx	

The full wording of hazard (H) phrases is given in section 16 of the sheet.

## **SECTION 4. First aid measures**

## 4.1. Description of first aid measures

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention immediately. Wash contaminated clothing before using it again.

INHALATION: Remove to open air. If the subject stops breathing, administer artificial respiration. Get medical advice/attention immediately. INGESTION: Get medical advice/attention immediately. Do not induce vomiting. Do not administer anything not explicitly authorised by a doctor.

## 4.2. Most important symptoms and effects, both acute and delayed

Specific information on symptoms and effects caused by the product are unknown.

## 4.3. Indication of any immediate medical attention and special treatment needed

Information not available

## **SECTION 5. Firefighting measures**

#### 5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray. UNSUITABLE EXTINGUISHING EQUIPMENT None in particular.

#### 5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE Do not breathe combustion products.

#### 5.3. Advice for firefighters

#### GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations. SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with

#### self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

## **SECTION 6.** Accidental release measures

## 6.1. Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

## 6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

## 6.3. Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.



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#### SECTION 6. Accidental release measures ... / >>

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

#### 6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

### **SECTION 7. Handling and storage**

#### 7.1. Precautions for safe handling

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat.

#### 7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Keep containers away from any incompatible materials, see section 10 for details.

10

Storage class TRGS 510 (Germany):

#### 7.3. Specific end use(s)

Information not available

## **SECTION 8. Exposure controls/personal protection**

#### 8.1. Control parameters

Regulatory References:

CZE	Česká Republika	Nařízení vlády č. 41/2020 Sb. Nařízení vlády, kterým se mění nařízení vlády č. 361/2007 Sb.,
	·	kterým se stanoví podmínky ochrany zdraví při práci, ve znění pozdějších předpisů
DEU	Deutschland	Technischen Regeln für Gefahrstoffe (TRGS 900) - Liste der Arbeitsplatzgrenzwerte und
		Kurzzeitwerte. MAK- und BAT-Werte-Liste 2020, Ständige Senatskommission zur Prüfung
		gesundheitsschädlicher Arbeitsstoffe, Mitteilung 56
DNK	Danmark	Bekendtgørelse om grænseværdier for stoffer og materialer - BEK nr 1458 af 13/12/2019
ESP	España	Límites de exposición profesional para agentes químicos en España 2019
FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS
FIN	Suomi	HTP-VÄRDEN 2020. Koncentrationer som befunnits skadliga. SOCIAL - OCH
		HÄLSOVÅRDSMINISTERIETS PUBLIKATIONER 2020:25
GRC	Ελλάδα	Π.Δ. 26/2020 (ΦΕΚ 50/Α` 6.3.2020) Εναρμόνιση της ελληνικής νομοθεσίας προς τις διατάξεις των
		οδηγιών 2017/2398/ΕΕ, 2019/130/ΕΕ και 2019/983/ΕΕ «για την τροποποίηση της οδηγίας
		2004/37/ΕΚ "σχετικά με την προστασία των εργαζομένων από τους κινδύνους που συνδέονται με
		την έκθεση σε καρκινογόνους ή μεταλλαξιγόνους παράγοντες κατά την εργασία"»
HUN	Magyarország	Az innovációért és technológiáért felelős miniszter 5/2020. (II. 6.) ITM rendelete a kémiai kóroki
		tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről
HRV	Hrvatska	Pravilnik o izmjenama i dopunama Pravilnika o zaštiti radnika od izloženosti opasnimkemikalijama
		na radu, graničnim vrijednostima izloženosti i biološkim graničnim vrijednostima (NN 1/2021)
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81
NOR	Norge	Forskrift om endring i forskrift om tiltaksverdier og grenseverdier for fysiske og kjemiske faktorer i
		arbeidsmiljøet samt smitterisikogrupper for biologiske faktorer (forskrift om tiltaks- og
		grenseverdier), 21. august 2018 nr. 1255
POL	Polska	Rozporządzenie Ministra Rodziny, Pracy i Polityki Społecznej z dnia 12 czerwca 2018 r. w sprawie
		najwyższych dopuszczalnych stężeń i natężeń czynników szkodliwych dla zdrowia w środowisku
		pracy
SWE	Sverige	Hygieniska gränsvärden, Arbetsmiljöverkets föreskrifter och allmänna råd om hygieniska
		gränsvärden (AFS 2018:1)
SVK	Slovensko	NARIADENIE VLÁDY Slovenskej republiky z 12. augusta 2020, ktorým sa mení a dopĺňa
		nariadenie vlády Slovenskej republiky č. 356/2006 Z. z. o ochrane zdravia zamestnancov pred
		rizikami súvisiacimi s expozíciou karcinogénnym a mutagénnym faktorom pri práci v znení
		neskorších predpisov
GBR	United Kingdom	EH40/2005 Workplace exposure limits (Fourth Edition 2020)
	TLV-ACGIH	ACGIH 2020



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## SECTION 8. Exposure controls/personal protection ... / >>

Threshold Limit Value							
Туре	Country	TWA/8h		STEL/15	min	Remarks / Observations	
		mg/m3	ppm	mg/m3	ppm		
TLV	CZE	3	0,171	10	0,57		
TLV	DNK	3					
GVI/KGVI	HRV	5					
NGV/KGV	SWE	3		5 (C)			
WEL	GBR	5		( )			

CARBON BLACK.						
<b>Threshold Limit</b>	Value					
Туре	Country	TWA/8h		STEL/15	min	Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV	CZE	2				
MAK	DEU	4				INHAL
MAK	DEU	1,5				RESP
VLA	ESP	3,5				
VLEP	FRA	3,5				INHAL
HTP	FIN	3,5		7		
VLEP	ITA	3				INHAL
TLV	NOR	3,5				
NGV/KGV	SWE	3				
WEL	GBR	3,5		7		INHAL

## DIPHENYLMETHANE-4,4'-DIISOCYANATE

			DIPH		12-4,4 -011300				
Threshold Limit V	/alue								
Туре	Country	TWA/8h		STEL/15r	min	Remarks / 0	Observations		
		mg/m3	ppm	mg/m3	ppm				
TLV	CZE	0,05		0,1					
AGW	DEU	0,05		0,05					
MAK	DEU	0,05		0,05		INHAL			
MAK	DEU	0,05		0,05		SKIN			
TLV	DNK	0,05	0,005	0,1	0,01				
VLA	ESP	0,052	0,005						
VLEP	FRA	0,1	0,01	0,2	0,02				
TLV	GRC	0,2		0,2					
AK	HUN	0,05		0,05					
TLV	NOR	0,05	0,005						
NDS/NDSCh	POL	0,05		0,2					
NGV/KGV	SWE	0,03	0,002	0,05 (C)	0,005 (C)				
NPEL	SVK	0,05		0,05					
TLV-ACGIH		0,051	0,005						
redicted no-effe	ct concentra	ation - PNEC	2						
Normal value in	n fresh water						1	mg/l	
Normal value in	n marine wate	er					0,1	mg/l	
Normal value for	or water, inte	rmittent relea	ase				10	mg/l	
Normal value of	f STP micro	organisms					1	mg/l	
Normal value for the terrestrial compartment						1	mg/kg		
Inhalation	0,05 mg/	- ,- ,	5	0,025 mg/m3	0,025	0,1 mg/m3		0,05 mg/m3	



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## SECTION 8. Exposure controls/personal protection ... / >>

2,2 - DIMORPHOLINODIE	ETHYL ETHER	
Predicted no-effect concentration - PNEC		
Normal value in fresh water	0,1	mg/l
Normal value in marine water	0,01	mg/l
Normal value for fresh water sediment	8,2	mg/kg
Normal value for marine water sediment	0,82	mg/kg
Normal value for water, intermittent release	1	mg/l
Normal value of STP microorganisms	100	mg/l
Normal value for the terrestrial compartment	1,58	mg/kg

Oral	VND	0,5 mg/kg/d		
Inhalation	VND	1,8 mg/m3	VND	7,28 mg/m3
Skin	VND	0,5 mg/kg/d	VND	1 mg/kg/d

Legend:

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified.

#### 8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

#### HAND PROTECTION

Protect your hands with work gloves, category III (ref. standard EN 374). For the final choice of material you need to assess the type of use. In case of contact for the short term or as protection against splashes, use gloves made of nitrile (0.3mm thickness, permeation time >480 min.). In the event of continued exposure use butyl rubber gloves (0.4mm thickness, permeation time> 480 min.). Contaminated gloves should be removed.

#### SKIN PROTECTION

Wear category I professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

#### RESPIRATORY PROTECTION

In case of exceeding the threshold value (eg, TLV-TWA) of the substance or one or more of the substances present in the product, it is advisable to wear a mask with filter type A for organic vapors, the class (1, 2 or 3) must be chosen according to the limit concentration of use (1000, 5000 or 10000 ppm) (ref. standard EN 14387).

ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

## **SECTION 9.** Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Properties	Value
Appearance	paste
Colour	black
Odour	characteristic
Odour threshold	Not available
рН	Not applicable
Melting point / freezing point	Not available
Initial boiling point	270 °C
Boiling range	Not available
Flash point	Not applicable
Evaporation rate	Not available
Flammability (solid, gas)	Not available
Lower inflammability limit	Not available
Upper inflammability limit	Not available

Information

Reason for missing data:Insoluble in water.

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#### SECTION 9. Physical and chemical properties .../>>

Lower explosive limit Upper explosive limit Vapour pressure Vapour density Relative density Solubility Partition coefficient: n-octanol/water Auto-ignition temperature Decomposition temperature Viscosity Explosive properties Oxidising properties

Not available Not available Not available 1,15 - 1,19 Not available 375 °C Not available 400000 - 470000 not explosive non oxidizing

#### 9.2. Other information

Information not available

## **SECTION 10. Stability and reactivity**

#### 10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

#### 10.2. Chemical stability

The product is stable in normal conditions of use and storage.

#### 10.3. Possibility of hazardous reactions

No hazardous reactions are foreseeable in normal conditions of use and storage.

#### 10.4. Conditions to avoid

None in particular. However the usual precautions used for chemical products should be respected.

#### 10.5. Incompatible materials

Information not available

#### 10.6. Hazardous decomposition products

Information not available

## **SECTION 11. Toxicological information**

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification. It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

#### 11.1. Information on toxicological effects

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

Information not available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Information not available

Interactive effects

Information not available



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Not classified (no significant component)

Not classified (no significant component)

Not classified (no significant component)

2025 mg/kg Rattus sp.

> 8000 mg/kg Rattus sp.

> 27 mg/l/1h Rattus sp.

> 2000 mg/kg Rattus sp.

1,5 mg/l/4h Rattus sp.

3038 mg/kg Oryctolagus sp.

> 3000 mg/kg Oryctolagus sp.

> 9400 mg/kg Oryctolagus sp.

> 10000 mg/kg Rat - Sprague-Dawley> 3160 mg/kg Rabbit - New Zeland white

> 4,4 mg/l Rat - Sprague-Dawley

ΕN

#### SECTION 11. Toxicological information .../>>

#### ACUTE TOXICITY

ATE (Inhalation) of the mixture: ATE (Oral) of the mixture: ATE (Dermal) of the mixture:

> 2,2 - DIMORPHOLINODIETHYL ETHER LD50 (Oral) LD50 (Dermal)

CARBON BLACK. LD50 (Oral) LD50 (Dermal) LC50 (Inhalation)

DIPHENYLMETHANE-4,4'-DIISOCYANATE LD50 (Oral) LD50 (Dermal) LC50 (Inhalation)

DIISONONYL PHTHALATE LD50 (Oral) LD50 (Dermal) LC50 (Inhalation)

#### SKIN CORROSION / IRRITATION

Does not meet the classification criteria for this hazard class

SERIOUS EYE DAMAGE / IRRITATION

Does not meet the classification criteria for this hazard class

RESPIRATORY OR SKIN SENSITISATION

Sensitising for the respiratory system

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

## **SECTION 12. Ecological information**

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation.

12.1. Toxicity



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### **SECTION 12. Ecological information** .../>>

SECTION 12. Ecological information / >>	
2,2 - DIMORPHOLINODIETHYL ETHER	
LC50 - for Fish	> 2150 mg/l/96h
EC50 - for Crustacea	> 100 mg/l/48h Daphnia sp.
EC50 - for Algae / Aquatic Plants	> 100 mg/l/72h
Chronic NOEC for Algae / Aquatic Plants	100 mg/l
CARBON BLACK.	1000 mar 11/00k Dwo aku dania waria
LC50 - for Fish	> 1000 mg/l/96h Brachydanio rerio > 10000 mg/l/72h Scenedesmus subspicatus
EC50 - for Algae / Aquatic Plants	
DIPHENYLMETHANE-4,4'-DIISOCYANATE	
LC50 - for Fish	> 1000 mg/l/96h Danio rerio
EC50 - for Algae / Aquatic Plants	> 1640 mg/l/72h Scenedesmus subspicatus
Chronic NOEC for Crustacea	> 10 mg/l Daphnia magna
Chronic NOEC for Algae / Aquatic Plants	1640 mg/l Desmodesmus subspicatus
DIISONONYL PHTHALATE	
LC50 - for Fish	> 102 mg/l/96h Danio rerio
EC50 - for Crustacea	> 74 mg/l/48h Daphnia magna
EC50 - for Algae / Aquatic Plants	> 88 mg/l/72h Scenedesmus subspicatus
12.2. Persistence and degradability	
2,2 - DIMORPHOLINODIETHYL ETHER	
NOT rapidly degradable	
DIISONONYL PHTHALATE	
Solubility in water	< 0,1 mg/l
Rapidly degradable	
12.3. Bioaccumulative potential	
DIISONONYL PHTHALATE	
Partition coefficient: n-octanol/water	8,8
BCF	> 3
12.4. Mobility in soil	
DIISONONYL PHTHALATE	
Partition coefficient: soil/water	6
12.5. Results of PBT and vPvB assessment	
On the basis of available data, the product does no	t contain any PBT or vPvB in percentage ≥ than 0,1%.
12.6. Other adverse effects	

Information not available

## **SECTION 13.** Disposal considerations

#### 13.1. Waste treatment methods

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations. Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

## **SECTION 14. Transport information**

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.



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### SECTION 14. Transport information ... / >>

#### 14.1. UN number

Not applicable

#### 14.2. UN proper shipping name

Not applicable

#### 14.3. Transport hazard class(es)

Not applicable

#### 14.4. Packing group

Not applicable

#### 14.5. Environmental hazards

Not applicable

#### 14.6. Special precautions for user

Not applicable

#### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Information not relevant

## **SECTION 15. Regulatory information**

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Seveso Category - Directive 2012/18/EC:

None

### Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

<u>Produc</u> t		
Point	3	
Contained substance		
Point	52	DIISONONYL PHTHALATE
		Reg. no.: 01-2119430798-28
Point	75	CARBON BLACK.
		Reg. no.: 01-2119384822-32
Point	56-75	DIPHENYLMETHANE-4,4'-DIISOCYANATE
		Reg. no.: 01-2119457014-47-XXXX
Point	74	DIISOCYANATES

Regulation (EC) No. 2019/1148 - on the marketing and use of explosives precursors Not applicable

Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage  $\geq$  than 0,1%.

Substances subject to authorisation (Annex XIV REACH) None

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012: None

Substances subject to the Rotterdam Convention: None

Substances subject to the Stockholm Convention: None



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### SECTION 15. Regulatory information ... / >>

### Healthcare controls

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

German regulation on the classification of substances hazardous to water (AwSV, vom 18. April 2017) WGK 1: Low hazard to waters

#### 15.2. Chemical safety assessment

A chemical safety assessment has been performed for the following contained substances  ${\sf DIPHENYLMETHANE-4,4'-DIISOCYANATE}$ 

## **SECTION 16. Other information**

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Carc. 2	2	Carcinogenicity, category 2				
Acute	Tox. 4	Acute toxicity, category 4				
STOT RE 2		Specific target organ toxicity - repeated exposure, category 2				
Eye Irrit. 2		Eye irritation, category 2				
Skin Irrit. 2		Skin irritation, category 2				
STOT SE 3		Specific target organ toxicity - single exposure, category 3				
Resp. Sens. 1		Respiratory sensitization, category 1				
Skin Sens. 1		Skin sensitization, category 1				
H351		Suspected of causing cancer.				
H332		Harmful if inhaled.				
H373		May cause damage to organs through prolonged or repeated exposure.				
H319		Causes serious eye irritation.				
H315		Causes skin irritation.				
H335		May cause respiratory irritation.				
H334		May cause allergy or asthma symptoms or breathing difficulties if inhaled.				
H317		May cause an allergic skin reaction.				
EUH20	)4	Contains isocyanates. May produce an allergic reaction.				
	iptor system:					
	2	Formulation into mixture				
ERC	5	Use at industrial site leading to inclusion into/onto article				
ERC	8b	Widespread use of reactive processing aid (no inclusion into or onto article, indoor)				
PC	1	Adhesives, sealants				
PC	21	Laboratory chemicals				
PROC	10	Roller application or brushing				
PROC	15	Use as laboratory reagent				
PROC	3	Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition				
PROC	4	Chemical production where opportunity for exposure arises				
PROC	5	Mixing or blending in batch processes				
PROC	8a	Transfer of substance or mixture (charging and discharging) at non- dedicated facilities				
PROC	8b	Transfer of substance or mixture (charging and discharging) at dedicated facilities				
PROC	9	Transfer of substance or mixture into small containers (dedicated filling line, including weighing)				
SU	10	Formulation [mixing] of preparations and/or re-packaging (excluding alloys)				
SU	17	General manufacturing, e.g. machinery, equipment, vehicles, other transport equipment				
SU	19	Building and construction work				
		-				

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road

- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level

ΕN



Revision nr.3 Dated 03/09/2021 Printed on 03/09/2021 Page n. 12 / 12 Replaced revision:2 (Dated 01/12/2020) ΕN

### SECTION 16. Other information ... / >>

- PBT: Persistent bioaccumulative and toxic as REACH Regulation PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

### GENERAL BIBLIOGRAPHY

- 1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
- 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
- 3. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament
- 4. Regulation (EU) 2015/830 of the European Parliament
- 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
- 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
- 7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
- 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
- 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
- 10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
- 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
- 12. Regulation (EU) 2016/1179 (IX Atp. CLP)
- 13. Regulation (EU) 2017/776 (X Atp. CLP)
- 14. Regulation (EU) 2018/669 (XI Atp. CLP)
- 15. Regulation (EU) 2018/1480 (XIII Atp. CLP)
- 16. Regulation (EU) 2019/521 (XII Atp. CLP)
- 17. Regulation (EU) 2019/1148
- 18. Regulation (EU) 2020/217 (XIV Atp. CLP)
- The Merck Index. 10th Edition
- Handling Chemical Safety
- INRS Fiche Toxicologique (toxicological sheet)
- Patty Industrial Hygiene and Toxicology
- N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website

- Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy

## Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses. Provide appointed staff with adequate training on how to use chemical products.

## CALCULATION METHODS FOR CLASSIFICATION

Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.

Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11.

Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.

Changes to previous review: The following sections were modified: 02 / 03 / 08 / 09 / 11 / 12 / 15.



Tip Onay No /Type Approval No : 43R - 010216



TÜRK STANDARDLARI ENSTİTÜSÜ

TURKISH STANDARDS INSTITUTION

Kapsam Genişletme No / Extension No : -

## **BİLDİRİM** COMMUNICATION



**Yönetmelik No:43 uyarınca emniyet cam malzeme tipi ile ilgili olarak,** of a type of safety glazing material pursuant to Regulation No. 43.

Onay Verildi /Approval Granted Onay Kapsamı Genişletildi /Approval Extended Onay Reddedildi /Approval Refused Onay Geri Çekildi /Approval Withdrawn İmalat Tamamen Durduruldu /Production Definitely Discontinued

**Onay No: 43R – 010216** *Approval No* 

- 1. Emniyet Cam Malzemesinin Sınıfı Class of safety glazing material
- **2.** Cam Tipinin Tarifi Description of the type of glazing
- 3. Ticari Adlar Ve Markalar Trade names or marks
- 4. İmalatçının Adı ve Adresi Manufacturer's name and address
- 5. Varsa, İmalatçının Temsilcisinin Adı ve Adresi If applicable, name and address of manufacturer's representative
- 6. Onaya Sunulduğu Tarih Submitted For Approval On
- Onay Deneylerini Yapmaktan Sorumlu Teknik Servis Technical service responsible for conducting approval tests
   Technik Servis Tarafından Verilen Raporun Tarihi Date of report issued by that service

Kapsam Genişletme No: -Extension No

- DÜZGÜN TOKLAŞTIRILMIŞ CAM PANELLER UNIFORMLY-TOUGHENED GLASS PANES
   Sınıf II (3,5 mm < e ≤ 4,5 mm), Hafif Renkli (3,5 mm < e ≤ 4,5 mm Category II), Tinted</li>
   Işık Geçirgenliği <%70 / Light Transmission <%70</li>
- : Bkz. Ek 1 İlave 2 / See Annex 1-Appendix 2
- : "WILLGLASS"
- EKPOL OTOMOTİV CAM SANAYİ VE TİCARET LTD. ŞTİ.
   Kayapa Sanayi Bölgesi Çiğdem Cad. No:4/A Nilüfer BURSA
- : -

÷

- : 08.08.2018
  - TÜRK STANDARDLARI ENSTİTÜSÜ
- : 26.07.2018

AÇIKLAMALAR: Bu belge, BSTB ile TSE arasında imzalanan 28/09/2015 tarihli "Türk Standardları Enstitüsünün Tip Onayı Belgelendirine İşlemleri Kapsamında Görevlendirilmesine Dair Protokol" çerçevesinde hazırlanmış ve onaylanmıştır.

**Description**: This certificate, signed between MSIT and TSE on 28 09/2015 was prepared in the scope of "The protocol on the purpose of authorizing Turkish Standards Institute on the Type Approval Certification Procedures" and was approved.



Tip Onay No /Type Approval No : 43R - 010216



TÜRK STANDARDLARI ENSTİTÜSÜ

TURKISH STANDARDS INSTITUTION

Kapsam Genişletme No / Extension No : -

- 9. Teknik Servis Tarafından Verilen Raporun Sayısı Number of report issued by that service
- 10. Onay, Approval Is
- **11.** Onay Kapsamının Genişletilme Nedeni (Nedenleri) Reason(s) for extension of approval
- 12. Açıklamalar / Remarks
- 13. Yer / Place
- 14. Tarih / Date
- 15. İmza / Signature

- : TSE.06.R-43.0238
- : Verildi/Reddedildi/ Kapsamı Genişletildi /Geri Çekildi Granted / Refused / Extended / Withdrawn
- · -
  - : Cam Panel / Glass Panes
  - : ANKARA
  - : 14.08.2018



Ali BENGİ TSE Ulaşım ve Lojistik Sistemleri Merkezi Başkanı

16. Onayı veren idari bölümce dosyalanan ve istek üzerine elde edilebilecek olan dokümanların listesi bu bildirime eklenmiştir.

The list of documents filed with the Type Approval Authority which has granted approval and available on request is Annexed to this communication.

- 1. Test Raporu (Teknik Servis)(5 sayfa) / Test Report(5 pages)
- 2. Yönetmelik No:43'e göre Ek 1 İlave 2 (1 sayfa) / Annex 1 Appendix 2 to Regulation No. 43(1 page)

ACIKLAMALAR: Bu belge, BSTB ile TSE arasında imzalanan 28/09/2015 tarihli "Türk Standardları Enstitüsünün Tip Onayı Belgelendirme İşlemleri Kapsamında Görevlendirilmesine Dair Protokol" çerçevesinde hazırlanmış ve onaylanmıştır. *Description:* This certificate, signed between MSIT and TSE on 28/09/2015 was prepared in the scope of "The protocol on the purpose of authorizing Turkish Standards Institute on the Type Approval Certification Procedures" and was approved.





TÜRK STANDARDLARI ENSTİTÜSÜ

TURKISH STANDARDS INSTITUTION

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## EK 1 - İLAVE 2

(ANNEX 1 – APPENDIX 2)

## DÜZGÜN TOKLAŞTIRILMIŞ CAM PANELLER (UNIFORMLY-TOUGHENED GLASS PANES)

(Yönetmelik No:43 Ek 5 veya Ek 9'da tanımlanan temel ve ikincil özellikler) (Principal and secondary characteristics as defined in Annex 5 or Annex 9 to Regulation No. 43)

Onay No: 43R - 010216		Kapsam Genişletme No: -		
Approval No	E.	xtension No		
Temel Özellikler / Principal characteristics				
- Ön camlardan Başka (var/yok)	8	VAR / YES		
Other than windscreens (yes/no)		VINN / ILAD		
- Yavaş Hareket Eden Taşıtlar İçin Ön Cam(lar)	8	YOK / NO		
Windscreen(s) for slow moving vehicles	2			
- Biçim Özelliği	8	Düz Ve Bombeli Cam Panel		
Shape category		Flat And Segment Glass Panel		
- Toklaştırma İşleminin Şekli	:	Işıl İşlem / Thermal		
Nature of toughening process:				
- Kalınlık Sınıfı	:	Sınıf II (3,5 mm < e ≤ 4,5 mm)		
Thickness category		Category II (3,5 mm $< e \le 4,5$ mm)		
- Plastik kaplamanın (kaplamaların) yapısı ve tipi	÷	YOK / NO		
<i>Nature and type of plastics coating(s)</i>				
- Plastik kaplamanın (kaplamaların) anma kalınlığı	:	YOK / NO		
Nominal thickness of plastic coating(s)				
İkincil Özellikler / Secondary characteristics				
- Malzemenin yapısı (plaka, flotal, levha cam)	ě	FLOAT / FLOAT		
Nature of the material (plate, float, sheet glass)				
- Camin Renklendirilmesi(renksiz/hafif renkli)	÷	Hafif Renkli / Tinted		
Colouring of glass (colourless/tinted)				
- Plastik kaplamanın(kaplamaların) renklendirilmesi	ě	YOK / NO		
Colouring of plastics coating(s)				
- İletkenlerin Varlığı (var/yok)	:	VAR		
Conductors incorporated (yes/no)		YES		
<ul> <li>Opak engelleyicinin Varlığı (var/yok)</li> </ul>	•	VAR / Serigrafi		
Opaque obscuration incorporated (yes/no)		YES / Serigraphy		
Onaylanmış Kriterler / Approved criteria				
- En Büyük Alan	ŝ.	2,50 m <sup>2</sup>		
Greatest area (flat glass)		1.40		
- En Küçük Açı	÷.	14º		
Smallest angle		2.502		
En büyük cam elde etme alanı (bombeli cam) Greatest developed area (curved glass)	×.	2,50 m <sup>2</sup>		
En büyük bombe yüksekliği	5	34 mm		
Greatest height of segment	£			
Beginen				
Aguklamalar / Remarks	:	Işık Geçirgenliği <%70 / Light Transmission		
210 12 12 12 12 12 12 12 12 12 12 12 12 12	2			

## Ekli Dokümanlar: -

Documents attached: -

AÇIKLAMALAR: Bu belge, BSTB ile TSE arasında imzalanan 28/09/2015 tarihli "Türk Standardları Enstitüsünün Tip Onayı Belgelendirme İşlemleri Kapsamında Görevlendirilmesine Dair Protokol" çerçevesinde hazırlanmış ve onaylanmıştır.

**Description**: This certificate, signed between MSIT and TSE on 28/09/2015 was prepared in the scope of "The protocol on the purpose of authorizing Turkish Standards Institute on the Type Approval Certification Procedures" and was approved.



TSE

TÜRK STANDARDLARI ENSTİTÜSÜ

TURKISH STANDARDS INSTITUTION

Kapsam Genişletme No / Extension No : -

T.C. SANAYİ VE TEKNOLOJİ BAKANLIĞI *T.R.* MINISTRY OF INDUSTRY AND TECHNOLOGY

Tip Onay No /Type Approval No : 43R - 010215

## BİLDİRİM

COMMUNICATION



**Yönetmelik No:43 uyarınca emniyet cam malzeme tipi ile ilgili olarak,** *of a type of safety glazing material pursuant to Regulation No. 43.* 

Onay Verildi /Approval Granted Onay Kapsamı Genişletildi /Approval Extended Onay Reddedildi /Approval Refused Onay Geri Çekildi /Approval Withdrawn İmalat Tamamen Durduruldu /Production Definitely Discontinued

**Onay No: 43R – 010215** *Approval No* 

- 1. Emniyet Cam Malzemesinin Sınıfı Class of safety glazing material
- 2. Cam Tipinin Tarifi Description of the type of glazing
- 3. Ticari Adlar Ve Markalar Trade names or marks
- 4. İmalatçının Adı ve Adresi Manufacturer's name and address
- **5.** Varsa, İmalatçının Temsilcisinin Adı ve Adresi If applicable, name and address of manufacturer's representative
- 6. Onaya Sunulduğu Tarih Submitted For Approval On
- Onay Deneylerini Yapmaktan Sorumlu Teknik Servis Technical crisic responsible for conducting approval tester
   Teknik Servis Tarafından Verilen Raporun Tarihi
- bate of report issued by that service

**Kapsam Genişletme No: -***Extension No* 

- DÜZGÜN TOKLAŞTIRILMIŞ CAM PANELLER UNIFORMLY-TOUGHENED GLASS PANES
   Sınıf II (3,5 mm < e ≤ 4,5 mm), Hafif Renkli (3,5 mm < e ≤ 4,5 mm Category II), Tinted</li>
   Işık Geçirgenliği >%70 / Light Transmission >%70
- Bkz. Ek 1 İlave 2 / See Annex 1-Appendix 2
- : "WILLGLASS"
- EKPOL OTOMOTİV CAM SANAYİ VE TİCARET LTD. ŞTİ. Kayapa Sanayi Bölgesi Çiğdem Cad. No:4/A Nilüfer BURSA
- : -

:

- : 08.08.2018
  - TÜRK STANDARDLARI ENSTİTÜSÜ
- : 26.07.2018

ACIKLAMALAR: Bu belge, BSTB ile TSE arasında imzalanan 28/09/2015 tarihli "Türk Standardları Enstitüsünün Tip Onayı Belgelendirme İşlemleri Kapsamında Görevlendirilmesine Dair Protokol" çerçevesinde hazırlanmış ve onaylanmıştır.

**Description**: This certificate, signed between MSIT and TSE on 28.09/2015 was prepared in the scope of "The protocol on the purpose of authorizing Turkish Standards Institute on the Type Approval Certification Procedures" and was approved.



Tip Onay No /Type Approval No : 43R - 010215



TÜRK STANDARDLARI ENSTİTÜSÜ

TURKISH STANDARDS INSTITUTION

Kapsam Genişletme No / Extension No : -

- 9. Teknik Servis Tarafından Verilen Raporun Sayısı Number of report issued by that service
- **10. Onay,** Approval Is
- **11. Onay Kapsamının Genişletilme Nedeni (Nedenleri)** *Reason(s) for extension of approval*
- 12. Açıklamalar / Remarks
- 13. Yer / Place
- 14. Tarih / Date
- 15. İmza / Signature

- : TSE.06.R-43.0237
- : Verildi/Reddedildi/ Kapsamı Genişletildi /Geri Çekildi Granted / Refused / Extended / Withdrawn
- : -
  - : Cam Panel / Glass Panes
  - : ANKARA
  - : 14.08.2018



Ali BENGİ TSE Ulaşım ve Lojistik Sistemleri Merkezi Başkanı

16. Onayı veren idari bölümce dosyalanan ve istek üzerine elde edilebilecek olan dokümanların listesi bu bildirime eklenmiştir.

The list of documents filed with the Type Approval Authority which has granted approval and available on request is Annexed to this communication.

- 1. Test Raporu (Teknik Servis)(5 sayfa) / Test Report(5 pages)
- 2. Yönetmelik No:43'e göre Ek 1 İlave 2 (1 sayfa) / Annex 1 Appendix 2 to Regulation No. 43(1 page)

AÇIKLAMALAR: Bu belge, BSTB ile TSE arasında imzalanan 28/09/2015 tarihli "Türk Standardları Enstitüsünün Tip Onayı Belgelendirme İşlemleri Kapsamında Görevlendirilmesine Dair Protokol" çerçevesinde hazırlanmış ve onaylanmıştır. Description: This certificate, signed between MSIT and TSE on 28/09/2015 was prepared in the scope of "The protocol on the purpose of authorizing Turkish Standards Institute on the Type Approval Certification Procedures" and was approved.





TÜRK STANDARDLARI ENSTİTÜSÜ

TURKISH STANDARDS INSTITUTION

## EK 1 - İLAVE 2

(ANNEX 1 – APPENDIX 2)

## DÜZGÜN TOKLAŞTIRILMIŞ CAM PANELLER (UNIFORMLY-TOUGHENED GLASS PANES)

(Yönetmelik No:43 Ek 5 veya Ek 9'da tanımlanan temel ve ikincil özellikler) (Principal and secondary characteristics as defined in Annex 5 or Annex 9 to Regulation No. 43)

#### Onay No: 43R - 010215 Kapsam Genişletme No: -Approval No Extension No **Temel Özellikler** / Principal characteristics Ön camlardan Başka (var/yok) VAR / YES Other than windscreens (yes/no) Yavas Hareket Eden Tasıtlar İcin Ön Cam(lar) YOK / NO Windscreen(s) for slow moving vehicles Biçim Özelliği Düz Ve Bombeli Cam Panel Shape category Flat And Segment Glass Panel Toklaştırma İşleminin Şekli 3 Işıl İşlem / Thermal Nature of toughening process: Kalınlık Sınıfı Sinif II (3,5 mm $< e \le 4,5$ mm) Thickness category Category II (3,5 mm $< e \le 4,5$ mm) Plastik kaplamanın (kaplamaların) yapısı ve tipi YOK / NO *Nature and type of plastics coating(s)* Plastik kaplamanın (kaplamaların) anma kalınlığı YOK / NO Nominal thickness of plastic coating(s) İkincil Özellikler / Secondary characteristics Malzemenin yapısı (plaka, flotal, levha cam) FLOAT / FLOAT Nature of the material (plate, float, sheet glass) Camin Renklendirilmesi(renksiz/hafif renkli) Hafif Renkli / Tinted Colouring of glass (colourless/tinted) Plastik kaplamanın(kaplamaların) renklendirilmesi YOK / NO Colouring of plastics coating(s) İletkenlerin Varlığı (var/yok) 1 VAR Conductors incorporated (yes/no) YES Opak engelleyicinin Varlığı (var/yok) : VAR / Serigrafi Opaque obscuration incorporated (yes/no) YES / Serigraphy Onaylanmış Kriterler / Approved criteria En Büyük Alan 2,50 m<sup>2</sup> Greatest area (flat glass) En Küçük Açı 14° Smallest angle En büyük cam elde etme alanı (bombeli cam) 2,50 m<sup>2</sup> Greatest developed area (curved glass) En büyük bombe yüksekliği 34 mm Greatest height of segment 2 amalar / Remarks Işık Geçirgenliği >%70 / Light Transmission >%70

## Ekli Dokümanlar: -

Documents attached: -

AÇIKLAMALAR: Bu belge, BSTB ile TSE arasında imzalanan 28/09/2015 tarihli "Türk Standardları Enstitüsünün Tip Onayı Belgelendirme İşlemleri Kapsamında Görevlendirilmesine Dair Protokol" çerçevesinde hazırlanmış ve onaylanmıştır.

Description: This certificate, signed between MSIT and TSE on 28/09/2015 was prepared in the scope of "The protocol on the purpose of authorizing Turkish Standards Institute on the Type Approval Certification Procedures" and was approved.

Sayfa 1/1



Tip Onay No /Type Approval No : 43R - 010214



TÜRK STANDARDLARI ENSTİTÜSÜ

TURKISH STANDARDS INSTITUTION

Kapsam Genişletme No / Extension No 🚦 🚽

## **BILDIRIM** COMMUNICATION



**Yönetmelik No:43 uyarınca emniyet cam malzeme tipi ile ilgili olarak**, *of a type of safety glazing material pursuant to Regulation No. 43.* 

Onay Verildi /Approval Granted Onay Kapsamı Genişletildi /Approval Extended Onay Reddedildi /Approval Refused Onay Geri Çekildi /Approval Withdrawn İmalat Tamamen Durduruldu /Production Definitely Discontinued

**Onay No: 43R – 010214** *Approval No* 

- 1. Emniyet Cam Malzemesinin Sınıfı Class of safety glazing material
- 2. Cam Tipinin Tarifi Description of the type of glazing
- 3. Ticari Adlar Ve Markalar Trade names or marks
- 4. İmalatçının Adı ve Adresi Manufacturer's name and address
- **5.** Varsa, İmalatçının Temsilcisinin Adı ve Adresi If applicable, name and address of manufacturer's representative
- 6. Onaya Sunulduğu Tarih Submitted For Approval On

Onay Dencylerini Yapmaktan Sorumlu Teknik Servis Technical service responsible for conducting approval tests Telenik Servis Tarafından Verilen Raporun Tarihi Date of report issued by that service Kapsam Genişletme No: -Extension No

- DÜZGÜN TOKLAŞTIRILMIŞ CAM PANELLER UNIFORMLY-TOUGHENED GLASS PANES Sınıf II (3,5 mm < e ≤ 4,5 mm), Renksiz (3,5 mm < e ≤ 4,5 mm Category II), Colourless Işık Geçirgenliği >%70 / Light Transmission >%70
- Bkz. Ek 1 İlave 2 / See Annex 1-Appendix 2
- : "WILLGLASS"
- : EKPOL OTOMOTİV CAM SANAYİ VE TİCARET LTD. ŞTİ. Kayapa Sanayi Bölgesi Çiğdem Cad. No:4/A Nilüfer BURSA
- : -

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- : 08.08.2018
  - TÜRK STANDARDLARI ENSTİTÜSÜ
- : 26.07.2018

ACIKLAMALAR: Bu belge, BSTB ile TSE arasında imzalanan 28/09/2015 tarihli "Türk Standardları Enstitüsünün Tip Onayı Belgelendirme İşlemleri Kapsamında Görevlendirilmesine Dair Protokol" çerçevesinde hazırlanmış ve onaylanmıştır.

**Description**: This certificate, signed between MSIT and TSE on 28/09/2015 was prepared in the scope of "The protocol on the purpose of authorizing Turkish Standards Institute on the Type Approval Certification Procedures" and was approved.



Tip Onay No /Type Approval No : 43R - 010214



TÜRK STANDARDLARI ENSTİTÜSÜ

TURKISH STANDARDS INSTITUTION

Kapsam Genişletme No / Extension No :

- 9. Teknik Servis Tarafından Verilen Raporun Sayısı Number of report issued by that service
- 10. Onay, Approval Is
- 11. Onay Kapsamının Genişletilme Nedeni (Nedenleri) Reason(s) for extension of approval
- 12. Açıklamalar / Remarks
- 13. Yer / Place
- 14. Tarih / Date
- 15. İmza / Signature

- TSE.06.R-43.0236
- : Verildi/Reddedildi/ Kapsamı Genişletildi /Geri Çekildi Granted / Refused / Extended / Withdrawn
- **Cam Panel** / Glass Panes
- ANKARA
- 14.08.2018



Ali BENGÌ TSE Ulaşım ve Lojistik Sistemleri Merkezi Başkanı

16. Onayı veren idari bölümce dosyalanan ve istek üzerine elde edilebilecek olan dokümanların listesi bu bildirime eklenmistir.

The list of documents filed with the Type Approval Authority which has granted approval and available on request is Annexed to this communication.

- Test Raporu (Teknik Servis)(5 sayfa) / Test Report(5 pages) 1.
- 2. Yönetmelik No:43'e göre Ek 1 – Ílave 2 (1 sayfa) / Annex 1 – Appendix 2 to Regulation No. 43(1 page)

ACIKLAMALAR: Bu belge, BSTB ile TSE arasında imzalanan 28/09/2015 tarihli "Türk Standardları Enstitüsünün Tip Onayı Belgelendirme İşlemleri Kapsamında Görevlendirilmesine Dair Protokol" çerçevesinde hazırlanmış ve onaylanmıştır. Description: This certificate, signed between MSIT and TSE on 28/09/2015 was prepared in the scope of "The protocol on the purpose of authorizing Turkish Standards Institute on the Type Approval Certification Procedures" and was approved. Sayfa 2/2





TÜRK STANDARDLARI ENSTİTÜSÜ

TURKISH STANDARDS INSTITUTION

## EK 1 - İLAVE 2

(ANNEX 1 – APPENDIX 2)

## DÜZGÜN TOKLAŞTIRILMIŞ CAM PANELLER (UNIFORMLY-TOUGHENED GLASS PANES)

(Yönetmelik No:43 Ek 5 veya Ek 9'da tanımlanan temel ve ikincil özellikler) (Principal and secondary characteristics as defined in Annex 5 or Annex 9 to Regulation No. 43)

Onay No: 43R – 010214	Kapsam Genişletme No: -			
Approval No	Extension No			
Temel Özellikler / Principal characteristics				
- Ön camlardan Başka (var/yok)	: $VAR / YES$			
Other than windscreens (yes/no)				
<ul> <li>Yavaş Hareket Eden Taşıtlar İçin Ön Cam(lar)</li> </ul>	: YOK/NO			
Windscreen(s) for slow moving vehicles				
- Biçim Özelliği	Düz Ve Bombeli Cam Panel			
Shape category	Flat And Segment Glass Panel			
- Toklaştırma İşleminin Şekli	Işıl İşlem / Thermal			
Nature of toughening process:				
- Kalınlık Sınıfı	Sinif II (3,5 mm < $e \le 4,5$ mm)			
Thickness category	Category II (3,5 mm $< e \le 4,5$ mm)			
- <b>Plastik kaplamanın (kaplamaların) yapısı ve tipi</b> Nature and type of plastics coating(s)	YOK/NO			
- Plastik kaplamanın (kaplamaların) anma kalınlığı Nominal thickness of plastic coating(s)	: YOK/NO			
İkincil Özellikler / Secondary characteristics				
- Malzemenin yapısı (plaka, flotal, levha cam)	: FLOAT / FLOAT			
Nature of the material (plate, float, sheet glass)				
- Camin Renklendirilmesi(renksiz/hafif renkli)	: Renksiz / Colourless			
Colouring of glass (colourless/tinted)				
- Plastik kaplamanın(kaplamaların) renklendirilmesi	: YOK / NO			
Colouring of plastics coating(s)				
- İletkenlerin Varlığı (var/yok)	: VAR			
Conductors incorporated (yes/no)	YES			
- Opak engelleyicinin Varlığı (var/yok)	: VAR / Serigrafi			
Opaque obscuration incorporated (yes/no)	YES / Serigraphy			
Oneulenmus Kriteulen / Assessed eriterie				
Onaylanmış Kriterler / Approved criteria	2,50 m <sup>2</sup>			
- En Büyük Alan Greatest area (flat glass)	2,50 m <sup>2</sup>			
	: 14º			
- En Küçük Açı Smallest angle	14			
En büyük cam elde etme alanı (bombeli cam)	2,50 m <sup>2</sup>			
Greatest developed area (curved glass)				
679 En büyük bombe yüksekliği	34 mm			
Greatest height of segment				
Açıklammar / Remarks	: Işık Geçirgenliği >%70 / Light Transmission >%70			
	, , , , , , , , , , , , , , , , , , , ,			

## Ekli Dokümanlar: -

Documents attached: -

ACIKLAMALAR: Bu belge, BSTB ile TSE arasında imzalanan 28/09/2015 tarihli "Türk Standardları Enstitüsünün Tip Onayı Belgelendirme İşlemleri Kapsamında Görevlendirilmesine Dair Protokol" çerçevesinde hazırlanmış ve onaylanmıştır.

Description: This certificate, signed between MSIT and TSE on 28/09/2015 was prepared in the scope of "The protocol on the purpose of authorizing Turkish Standards Institute on the Type Approval Certification Procedures" and was approved.



Tip Onay No /Type Approval No : 43R - 010213



TÜRK STANDARDLARI ENSTİTÜSÜ

TURKISH STANDARDS INSTITUTION

Kapsam Genişletme No / Extension No : -

## **BİLDİRİM** COMMUNICATION



**Yönetmelik No:43 uyarınca emniyet cam malzeme tipi ile ilgili olarak,** *of a type of safety glazing material pursuant to Regulation No. 43.* 

Onay Verildi /Approval Granted Onay Kapsamı Genişletildi /Approval Extended Onay Reddedildi /Approval Refused Onay Geri Çekildi /Approval Withdrawn İmalat Tamamen Durduruldu /Production Definitely Discontinued

**Onay No: 43R – 010213** *Approval No* 

- 1. Emniyet Cam Malzemesinin Sınıfı Class of safety glazing material
- 2. Cam Tipinin Tarifi Description of the type of glazing
- 3. Ticari Adlar Ve Markalar Trade names or marks
- 4. İmalatçının Adı ve Adresi Manufacturer's name and address
- **5.** Varsa, İmalatçının Temsilcisinin Adı ve Adresi If applicable, name and address of manufacturer's representative
- 6. Onaya Sunulduğu Tarih Submitted For Approval On
- Onay Deneylerini Yapmaktan Sorumlu Teknik Servis Technical service responsible for conducting approval tests
   Teknik Servis Tarafından Verilen Raporun Tarihi
- Date of report issued by that service

**Kapsam Genişletme No: -***Extension No* 

- DÜZGÜN TOKLAŞTIRILMIŞ CAM PANELLER UNIFORMLY-TOUGHENED GLASS PANES Sınıf III (4,5 mm < e ≤ 6,5 mm), Hafif Renkli (4,5 mm < e ≤ 6,5 mm Category III), Tinted Işık Geçirgenliği <%70 / Light Transmission <%70</li>
- Bkz. Ek 1 İlave 2 / See Annex 1-Appendix 2
- : "WILLGLASS"
- EKPOL OTOMOTİV CAM SANAYİ VE TİCARET LTD. ŞTİ.
   Kayapa Sanayi Bölgesi Çiğdem Cad. No:4/A Nilüfer BURSA
- : -

:

- : 08.08.2018
  - TÜRK STANDARDLARI ENSTİTÜSÜ
- : 26.07.2018

AÇIKLAMALAR: Bu belge, BSTB ile TSE arasında imzalanan 28/09/2015 tarihli "Türk Standardları Enstitüsünün Tip Onayı Belgelendirme İşlemleri Kapsamında Görevlendirilmesine Dair Protokol" çerçevesinde hazırlanmış ve onaylanmıştır.

**Description**. This certificate, signed between MSIT and TSE on 28 09 2015 was prepared in the scope of "The protocol on the purpose of authorizing Turkish Standards Institute on the Type Approval Certification Procedures" and was approved.



Tip Onay No /Type Approval No : 43R - 010213



TÜRK STANDARDLARI ENSTİTÜSÜ

TURKISH STANDARDS INSTITUTION

Kapsam Genişletme No / Extension No :

- 9. Teknik Servis Tarafından Verilen Raporun Sayısı Number of report issued by that service
- 10. Onay, Approval Is
- 11. Onay Kapsamının Genişletilme Nedeni (Nedenleri) Reason(s) for extension of approval
- 12. Açıklamalar / Remarks
- 13. Yer / Place
- 14. Tarih / Date
- 15. İmza / Signature

- TSE.06.R-43.0235 2
- Verildi/Reddedildi/ Kapsamı Genişletildi /Geri Çekildi : Granted / Refused / Extended / Withdrawn
- :
  - Cam Panel / Glass Panes ÷
  - ANKARA •
  - 14.08.2018 :



Ali BENGİ TSE Ulaşım ve Lojistik Sistemleri Merkezi Başkanı

16. Onayı veren idari bölümce dosyalanan ve istek üzerine elde edilebilecek olan dokümanların listesi bu bildirime eklenmistir.

The list of documents filed with the Type Approval Authority which has granted approval and available on request is Annexed to this communication.

- Test Raporu (Teknik Servis)(5 sayfa) / Test Report(5 pages) 1.
- 2. Yönetmelik No:43'e göre Ek 1 – İlave 2 (1 sayfa) / Annex 1 – Appendix 2 to Regulation No. 43(1 page)

ACIKLAMALAR: Bu belge, BSTB ile TSE arasında imzalanan 28/09/2015 tarihli "Türk Standardları Enstitüsünün Tip Onayı Belgelendirme İşlemleri Kapsamında Görevlendirilmesine Dair Protokol" çerçevesinde hazırlanmış ve onaylanmıştır. Description: This certificate, signed between MSIT and TSE on 28/09/2015 was prepared in the scope of "The protocol on the purpose of authorizing Turkish Standards Institute on the Type Approval Certification Procedures" and was approved.



T.C

TÜRK STANDARDLARI ENSTİTÜSÜ

TURKISH STANDARDS INSTITUTION

## SANAYİ VE TEKNOLOJİ BAKANLIĞI T.R. MINISTRY OF INDUSTRY AND TECHNOLOGY

## EK 1 - İLAVE 2 (ANNEX 1 – APPENDIX 2)

## DÜZGÜN TOKLAŞTIRILMIŞ CAM PANELLER (UNIFORMLY-TOUGHENED GLASS PANES)

(Yönetmelik No:43 Ek 5 veya Ek 9'da tanımlanan temel ve ikincil özellikler) (Principal and secondary characteristics as defined in Annex 5 or Annex 9 to Regulation No. 43)

#### Onay No: 43R - 010213 Kapsam Genişletme No: -Approval No Extension No **Temel Özellikler** / *Principal characteristics* Ön camlardan Başka (var/yok) VAR / YES Other than windscreens (yes/no) Yavaş Hareket Eden Taşıtlar İçin Ön Cam(lar) YOK / NO *Windscreen(s)* for slow moving vehicles Bicim Özelliği Düz Ve Bombeli Cam Panel Shape category Flat And Segment Glass Panel Toklaştırma İşleminin Şekli Işıl İşlem / Thermal Nature of toughening process: Kalınlık Sınıfı Sinif III (4,5 mm $\leq e \leq 6,5$ mm) Category III (4,5 mm $< e \le 6,5$ mm) Thickness category Plastik kaplamanın (kaplamaların) yapısı ve tipi YOK / NO *Nature and type of plastics coating(s)* Plastik kaplamanın (kaplamaların) anma kalınlığı : YOK / NO Nominal thickness of plastic coating(s) İkincil Özellikler / Secondary characteristics Malzemenin yapısı (plaka, flotal, levha cam) FLOAT / FLOAT Nature of the material (plate, float, sheet glass) Camin Renklendirilmesi(renksiz/hafif renkli) Hafif Renkli / Tinted Colouring of glass (colourless/tinted) YOK / NO Plastik kaplamanın(kaplamaların) renklendirilmesi Colouring of plastics coating(s) İletkenlerin Varlığı (var/yok) VAR Conductors incorporated (yes/no) YES Opak engelleyicinin Varlığı (var/yok) VAR / Serigrafi Opaque obscuration incorporated (yes/no) YES / Serigraphy Onaylanmış Kriterler / Approved criteria En Büyük Alan 2,50 m<sup>2</sup> Greatest area (flat glass) En Küçük Açı 14° Smallest angle En büyük cam elde etme alanı (bombeli cam) 2.50 m<sup>2</sup> Greatest developed area (curved glass) En hüyük bombe yüksekliği 34 mm Greatest Height of segment ciklamalar / Remarks Işık Geçirgenliği <%70 / Light Transmission <%70

## Ekli Dokümanlar: -

Documents attached: -

AÇIKLAMALAR: Bu belge, BSTB ile TSE arasında imzalanan 28/09/2015 tarihli "Türk Standardları Enstitüsünün Tip Onayı Belgelendirme İşlemleri Kapsamında Görevlendirilmesine Dair Protokol" çerçevesinde hazırlanmış ve onaylanmıştır.

**Description**: This certificate, signed between MSIT and TSE on 28/09/2015 was prepared in the scope of "The protocol on the purpose of authorizing Turkish Standards Institute on the Type Approval Certification Procedures" and was approved.

Sayfa 1/1



Tip Onay No /Type Approval No : 43R - 010212



TÜRK STANDARDLARI ENSTİTÜSÜ

TURKISH STANDARDS INSTITUTION

Kapsam Genişletme No / Extension No : -

## BİLDİRİM

COMMUNICATION



**Yönetmelik No:43 uyarınca emniyet cam malzeme tipi ile ilgili olarak,** *of a type of safety glazing material pursuant to Regulation No. 43.* 

Onay Verildi /Approval Granted Onay Kapsamı Genişletildi /Approval Extended Onay Reddedildi /Approval Refused Onay Geri Çekildi /Approval Withdrawn İmalat Tamamen Durduruldu /Production Definitely Discontinued

**Onay No: 43R – 010212** *Approval No* 

- 1. Emniyet Cam Malzemesinin Sınıfı Class of safety glazing material
- 2. Cam Tipinin Tarifi Description of the type of glazing
- 3. Ticari Adlar Ve Markalar Trade names or marks
- 4. İmalatçının Adı ve Adresi Manufacturer's name and address
- 5. Varsa, İmalatçının Temsilcisinin Adı ve Adresi If applicable, name and address of manufacturer's representative
- 6. Onaya Sunulduğu Tarih Submitted For Approval On

7. Onay Deneylerini Yapmaktan Sorumlu Teknik Servis Technical service responsible for conducting approval

8. Peknik Servis Tarafından Verilen Raporun Tarihi Date of report issued by that service Kapsam Genişletme No: -Extension No

- : DÜZGÜN TOKLAŞTIRILMIŞ CAM PANELLER UNIFORMLY-TOUGHENED GLASS PANES Sınıf III (4,5 mm <  $e \le 6,5$  mm), Hafif Renkli (4,5 mm <  $e \le 6,5$  mm Category III), Tinted Işık Geçirgenliği >%70 / Light Transmission >%70
- Bkz. Ek 1 İlave 2 / See Annex 1-Appendix 2
- : "WILLGLASS"
- EKPOL OTOMOTİV CAM SANAYİ VE TİCARET LTD. ŞTİ.
   Kayapa Sanayi Bölgesi Çiğdem Cad. No:4/A Nilüfer BURSA
- •

:

- : 08.08.2018
  - TÜRK STANDARDLARI ENSTİTÜSÜ
- : 26.07.2018

ACIKLAMALAR: Bu belge, BSTB ile TSE arasında imzalanan 28/09/2015 tarihli "Türk Standardları Enstitüsünün Tip Onayı Belgelendirme İşlemleri Kapsamında Görevlendirilmesine Dair Protokol" çerçevesinde hazırlanmış ve onaylanmıştır. *Description:* This certificate, signed between MSIT and TSE on 28/09/2015 was prepared in the scope of "The protocol on the purpose of authorizing Turkish Standards Institute on the Type' Approval Certification Procedures" and was approved.



Tip Onay No /Type Approval No : 43R - 010212



TÜRK STANDARDLARI ENSTİTÜSÜ

TURKISH STANDARDS INSTITUTION

Kapsam Genişletme No / Extension No : -

- 9. Teknik Servis Tarafından Verilen Raporun Sayısı Number of report issued by that service
- **10. Onay,** *Approval Is*
- **11.** Onay Kapsamının Genişletilme Nedeni (Nedenleri) Reason(s) for extension of approval
- 12. Açıklamalar / Remarks
- 13. Yer / Place
- 14. Tarih / Date
- 15. İmza / Signature

- : TSE.06.R-43.0234
- : Verildi/Reddedildi/ Kapsamı Genişletildi /Geri Çekildi Granted / Refused / Extended / Withdrawn
- : -
- : Cam Panel / Glass Panes
- : ANKARA
- : 14.08.2018



Ali BENGİ TSE Ulaşım ve Lojistik Sistemleri Merkezi Başkanı

16. Onayı veren idari bölümce dosyalanan ve istek üzerine elde edilebilecek olan dokümanların listesi bu bildirime eklenmiştir.

The list of documents filed with the Type Approval Authority which has granted approval and available on request is Annexed to this communication.

- 1. Test Raporu (Teknik Servis)(5 sayfa) / Test Report(5 pages)
- 2. Yönetmelik No:43'e göre Ek 1 İlave 2 (1 sayfa) / Annex 1 Appendix 2 to Regulation No. 43(1 page)

AÇIKLAMALAR: Bu belge, BSTB ile TSE arasında imzalanan 28/09/2015 tarihli "Türk Standardları Enstitüsünün Tip Onayı Belgelendirme İşlemleri Kapsamında Görevlendirilmesine Dair Protokol" çerçevesinde hazırlanmış ve onaylanmıştır. Description: This certificate, signed between MSIT and TSE on 28/09/2015 was prepared in the scope of "The protocol on the purpose of authorizing Turkish Standards Institute on the Type Approval Certification Procedures" and was approved.





TÜRK STANDARDLARI ENSTİTÜSÜ

TURKISH STANDARDS INSTITUTION

## EK 1 - İLAVE 2

(ANNEX 1 – APPENDIX 2)

## DÜZGÜN TOKLAŞTIRILMIŞ CAM PANELLER (UNIFORMLY-TOUGHENED GLASS PANES)

(Yönetmelik No:43 Ek 5 veya Ek 9'da tanımlanan temel ve ikincil özellikler) (Principal and secondary characteristics as defined in Annex 5 or Annex 9 to Regulation No. 43)

#### Onay No: 43R - 010212 Kapsam Genişletme No: -Approval No Extension No **Temel Özellikler** / *Principal characteristics* Ön camlardan Başka (var/yok) VAR / YES Other than windscreens (yes/no) Yavaş Hareket Eden Taşıtlar İçin Ön Cam(lar) YOK / NO *Windscreen(s)* for slow moving vehicles Biçim Özelliği Düz ve Bombeli Cam Panel Shape category Flat And Segment Glass Panel Toklaştırma İşleminin Şekli Işıl İşlem / Thermal Nature of toughening process: Kalinlik Sinifi Sinif III (4,5 mm $< e \le 6,5$ mm) Thickness category Category III (4,5 mm $< e \le 6,5$ mm) Plastik kaplamanın (kaplamaların) yapısı ve tipi YOK / NO *Nature and type of plastics coating(s)* Plastik kaplamanın (kaplamaların) anma kalınlığı YOK / NO Nominal thickness of plastic coating(s) İkincil Özellikler / Secondary characteristics Malzemenin yapısı (plaka, flotal, levha cam) FLOAT / FLOAT *Nature of the material (plate, float, sheet glass)* Camin Renklendirilmesi(renksiz/hafif renkli) Hafif Renkli / Tinted Colouring of glass (colourless/tinted) Plastik kaplamanın(kaplamaların) renklendirilmesi YOK / NO Colouring of plastics coating(s) İletkenlerin Varlığı (var/yok) VAR 2.2 Conductors incorporated (yes/no) YES Opak engelleyicinin Varlığı (var/yok) VAR / Serigrafi *Opaque obscuration incorporated (yes/no)* YES / Serigraphy **Onaylanmış Kriterler** / Approved criteria En Büyük Alan 2,50 m<sup>2</sup> Greatest area (flat glass) En Küçük Açı 14° Smallest angle En büyük cam elde etme alanı (bombeli cam) 2,50 m<sup>2</sup> Greatest developed area (curved glass) En büyük bombe yüksekliği 34 mm Granden height of segment Aciklamalar / Remarks Işık Geçirgenliği >%70 / Light Transmission >%70 •

## Ekli Dokümanlar: -

Documents attached: -

AÇIKLAMALAR: Bu belge, BSTB ile TSE arasında imzalanan 28/09/2015 tarihli "Türk Standardları Enstitüsünün Tip Onayı Belgelendirme İşlemleri Kapsamında Görevlendirilmesine Dair Protokol" çerçevesinde hazırlanmış ve onaylanmıştır.

**Description**: This certificate, signed between MSIT and TSE on 28/09/2015 was prepared in the scope of "The protocol on the purpose of authorizing Turkish Standards Institute on the Type Approval Certification Procedures" and was approved.



Tip Onay No /Type Approval No : 43R - 010211



TÜRK STANDARDLARI ENSTİTÜSÜ

TURKISH STANDARDS INSTITUTION

Kapsam Genişletme No / Extension No 💠 🚽

## BILDIRIM

COMMUNICATION



**Yönetmelik No:43 uyarınca emniyet cam malzeme tipi ile ilgili olarak,** of a type of safety glazing material pursuant to Regulation No. 43.

Onay Verildi /Approval Granted Onay Kapsamı Genişletildi /Approval Extended Onay Reddedildi /Approval Refused Onay Geri Çekildi /Approval Withdrawn İmalat Tamamen Durduruldu /Production Definitely Discontinued

**Onay No: 43R – 010211** *Approval No* 

- 1. Emniyet Cam Malzemesinin Sınıfı Class of safety glazing material
- 2. Cam Tipinin Tarifi Description of the type of glazing
- 3. Ticari Adlar Ve Markalar Trade names or marks
- 4. İmalatçının Adı ve Adresi Manufacturer's name and address
- **5.** Varsa, İmalatçının Temsilcisinin Adı ve Adresi If applicable, name and address of manufacturer's representative
- 6. Onaya Sunulduğu Tarih Submitted For Approval On
- 7. Onay Deneylerini Yapmaktan Sorumlu Teknik Servis Technical service responsible for conducting approval tests
- 8. Teknik Servis Tarafından Verilen Raporun Tarihi Dale of report issued by that service

Kapsam Genişletme No: -Extension No

- DÜZGÜN TOKLAŞTIRILMIŞ CAM PANELLER UNIFORMLY-TOUGHENED GLASS PANES
   Sınıf III (4,5 mm < e ≤ 6,5 mm), Renksiz (4,5 mm < e ≤ 6,5 mm Category III), Colourless</li>
   Işık Geçirgenliği >%70 / Light Transmission >%70
- Bkz. Ek 1 İlave 2 / See Annex 1-Appendix 2
- : "WILLGLASS"
- E EKPOL OTOMOTİV CAM SANAYİ VE TİCARET LTD. ŞTİ. Kayapa Sanayi Bölgesi Çiğdem Cad. No:4/A Nilüfer BURSA
- : -

:

- : 08.08.2018
  - TÜRK STANDARDLARI ENSTİTÜSÜ
- : 26.07.2018

AÇIKLAMALAR: Bu belge, BSTB ile TSE arasında imzalanan 28/09/2015 tarihli "Türk Standardları Enstitüsünün Tip Onayı Belgelendirme İşlemleri Kapsamında Görevlendirilmesine Dair Protokol" çerçevesinde hazırlanmış ve onaylanmıştır.

**Description** This certificate, signed between MSIT and TSE on 28 09/2015 was prepared in the scope of "The protocol on the purpose of authorizing Turkish Standards Institute on the Type Approval Certification Procedures" and was approved.



T.C.

Tip Onay No /Type Approval No : 43R - 010211



TÜRK STANDARDLARI ENSTİTÜSÜ

TURKISH STANDARDS INSTITUTION

Kapsam Genişletme No / Extension No : -

- 9. Teknik Servis Tarafından Verilen Raporun Sayısı Number of report issued by that service
- **10. Onay,** Approval Is
- **11.** Onay Kapsamının Genişletilme Nedeni (Nedenleri) Reason(s) for extension of approval
- 12. Açıklamalar / Remarks
- 13. Yer / Place
- 14. Tarih / Date
- 15. İmza / Signature

- : TSE.06.R-43.0233
- : Verildi/Reddedildi/ Kapsamı Genişletildi /Geri Çekildi Granted / Refused / Extended / Withdrawn
- : -
- : Cam Panel / Glass Panes
- : ANKARA
- : 14.08.2018



Ali BENGİ TSE Ulaşım ve Lojistik Sistemleri Merkezi Başkanı

16. Onayı veren idari bölümce dosyalanan ve istek üzerine elde edilebilecek olan dokümanların listesi bu bildirime eklenmiştir.

The list of documents filed with the Type Approval Authority which has granted approval and available on request is Annexed to this communication.

- 1. Test Raporu (Teknik Servis)(5 sayfa) / Test Report(5 pages)
- 2. Yönetmelik No:43'e göre Ek 1 İlave 2 (1 sayfa) / Annex 1 Appendix 2 to Regulation No. 43(1 page)

AÇIKLAMALAR: Bu belge, BSTB ile TSE arasında imzalanan 28/09/2015 tarihli "Türk Standardları Enstitüsünün Tip Onayı Belgelendirme İşlemleri Kapsamında Görevlendirilmesine Dair Protokol" çerçevesinde hazırlanmış ve onaylanmıştır. Description: This certificate, signed between MSIT and TSE on 28/09/2015 was prepared in the scope of "The protocol on the purpose of authorizing Turkish Standards Institute on the Type Approval Certification Procedures" and was approved. Sayfa 2/2



TÜRK STANDARDLARI ENSTİTÜSÜ

TURKISH STANDARDS INSTITUTION

#### T.C. SANAYİ VE TEKNOLOJİ BAKANLIĞI *T.R.* MINISTRY OF INDUSTRY AND TECHNOLOGY

## EK 1 - İLAVE 2 (ANNEX 1 – APPENDIX 2)

## DÜZGÜN TOKLAŞTIRILMIŞ CAM PANELLER (UNIFORMLY-TOUGHENED GLASS PANES)

(Yönetmelik No:43 Ek 5 veya Ek 9'da tanımlanan temel ve ikincil özellikler) (Principal and secondary characteristics as defined in Annex 5 or Annex 9 to Regulation No. 43)

## Onay No: 43R - 010211

Approval No

## Kapsam Genişletme No: -

Extension No

Temel Özellikler / Principal characteristics		
- Ön camlardan Başka (var/yok)	2	VAR / YES
Other than windscreens (yes/no)		
- Yavaş Hareket Eden Taşıtlar İçin Ön Cam(lar)		YOK / NO
Windscreen(s) for slow moving vehicles		
- Biçim Özelliği	1	Düz Ve Bombeli Cam Panel
Shape category		Flat And Segment Glass Panel
- Toklaştırma İşleminin Şekli	1	Işıl İşlem / Thermal
Nature of toughening process:		
- Kalınlık Sınıfı	1	Sınıf III (4,5 mm < e ≤ 6,5 mm)
Thickness category		Category III (4,5 mm $< e \le 6,5$ mm)
- Plastik kaplamanın (kaplamaların) yapısı ve tipi	1	YOK / NO
<i>Nature and type of plastics coating(s)</i>		
- Plastik kaplamanın (kaplamaların) anma kalınlığı		YOK / NO
Nominal thickness of plastic coating(s)		
İkincil Özellikler / Secondary characteristics		
- Malzemenin yapısı (plaka, flotal, levha cam)		FLOAT / FLOAT
Nature of the material (plate, float, sheet glass)		
- Camın Renklendirilmesi(renksiz/hafif renkli)		Renksiz / Colourless
Colouring of glass (colourless/tinted)		
- Plastik kaplamanın(kaplamaların) renklendirilmesi		YOK / NO
Colouring of plastics coating(s)		
<ul> <li>İletkenlerin Varlığı (var/yok)</li> </ul>	2	VAR
Conductors incorporated (yes/no)		YES
- Opak engelleyicinin Varlığı (var/yok)	2	VAR / Serigrafi
Opaque obscuration incorporated (yes/no)		YES / Serigraphy
Onaylanmış Kriterler / Approved criteria		
- En Büyük Alan	÷.	2,50 m <sup>2</sup>
Greatest area (flat glass)		
- En Küçük Açı	:	14°
Smallest angle		
- En büyük cam elde etme alanı (bombeli cam)	:	2,50 m <sup>2</sup>
Greatest developed area (curved glass)		
- En büyük bombe yüksekliği		34 mm
Greatest height of segment		
30 105		
Açıklamalar / Remarks	:	Işık Geçirgenliği >%70 / Light Transmission >%70
009		
X X	_	
Ekli Dokümanlar: -		

Ekli Dokumanlar: -Documents altached? -

AÇIKLAMALAR: Bu belge, BSTB ile TSE arasında imzalanan 28/09/2015 tarihli "Türk Standardları Enstitüsünün Tip Onayı Belgelendirme İşlemleri Kapsamında Görevlendirilmesine Dair Protokol" çerçevesinde hazırlanmış ve onaylanmıştır.

Description: This certificate, signed between MSIT and TSE on 28/09/2015 was prepared in the scope of "The protocol on the purpose of authorizing Turkish Standards Institute on the Type Approval Certification Procedures" and was approved.