

Production Part Approval Material Test Results

DAIMLERCHRYSLER



Testing to TMS-C2901 Type A, Rev 07 / 2017-08-08

ORGANIZATION: GLOBAL ENTERPRISES INTERNATIONAL			PART NUMBER: 4671878 / 1439798				
SUPPLIER / VENDOR CODE:			PART NAME: Extruded profiles				
MATERIAL SUPPLIER: Fleece - PTX; Base resin - MOL			DESIGN RECORD CHANGE LEVEL: various				
*CUSTOMER SPECIFIED SUPPLIER / VENDOR CODE:			ENGINEERING CHANGE DOCUMENTS: drawings				
If source approval is req'd, include the Supplier (Source) & Customer assigned code.			NAME of LABORATORY: IMAT-UVE GmbH ; MUKI Hungary				
TEST	SPECIFICATION / LIMITS	TEST DATE	QTY. TESTED	SUPPLIER TEST RESULTS (DATA)		OK	NOT OK
3.4.1 Material Composition Nonwoven Fleece	100% PP	N/A	QC per each batch	100% PP		x	
3.4.2 Weight	DS / EN 965 / ISO 9073-1 130±170g/m²	7/20/2018	3	157		x	
3.4.3 Grabtest	DIN ISO 13934-2 Transverse: >540N Lengthwise: >440N	7/27/2018	5 5	T : 582 L : 639		x	
3.4.4 Elongation	DIN EN 29073-3 / ISO 9073-3 at 100N Transverse: max. 18% Lengthwise: max. 14%	7/12/2018	5 5	T : 13% L : 3%		x	
3.4.5 Maximum tensile load - 5cm	DIN EN 29073-3 / ISO 9073-3 Transverse: > 350N Lengthwise: > 250N	7/12/2018	5 5	T : 383 L : 565		x	
3.4.6 Trapezoid Tear Strength	DIN EN 9073-4 Transverse: > 140N Lengthwise: > 170N	7/17/2018	5 5	T : 148 L : 176		x	
3.5.1 Material Composition Rod / Bead (PP)	Polypropylene Copolymer	N/A	QC per each batch	PP Copolymer		x	
3.5.2 Density	ISO 1183 0.9 ± 0.2 g/cm³	1/25/2019	3	0.897		x	
3.5.3 Shore hardness	ISO 868 > 50 D	1/28/2019	5	60.7		x	
3.5.4 Tensile strength	ISO 527-2-1A > 21 MPa	1/30/2019	3	25		x	
3.5.5 Flexural Modulus	ISO 178 > 800 MPa	1/28/2019	3	1098		x	
3.5.6 Heat Deflection Temperature (HDT) 1.82 MPa	ISO 75-2A > 40°C	1/24/2019	3	50		x	
3.5.7 Heat Deflection Temperature (HDT) 0.45 MPa	ISO 75-2B > 65°C	1/28/2019	3	83		x	
3.6.1 Connection strength rod-fleece Test part 50mm length	N/A >360N / 50mm	Internal GEI (8.02.2019)	5	674 ; 620 ; 568 ; 661 ; 754		x	
3.6.2 Fogging	DIN 75201-A min. 80%	1/28/2019	3	99.1		x	
3.6.3 Odour	VDA 270 B3 max. 3 grade	1/29/2019	3	3		x	
3.6.4 Flammability - CC	FMVSS 302 ≤ 100 mm/min.	1/31/2019	5	27		x	

Blanket statements of conformance are unacceptable for any test results.

SIGNATURE	TITLE	DATE
<i>Ramona Pana</i>	QC	25.04.2019

Production Part Approval Material Test Results

DAIMLERCHRYSLER



Testing to TMS-C3305 rev.07_08.08.2017

ORGANIZATION: GLOBAL ENTERPRISES INTERNATIONAL			PART NUMBER: 1844011 / 2357253 / 4163050 / 4544359			
SUPPLIER / VENDOR CODE: GLOBAL ENTERPRISES INTERNATIONAL			PART NAME: Plastic profiles			
MATERIAL SUPPLIER: TVK MOL			DESIGN RECORD CHANGE LEVEL: various			
*CUSTOMER SPECIFIED SUPPLIER / VENDOR CODE:			ENGINEERING CHANGE DOCUMENTS: drawings			
*If source approval is req'd, include the Supplier (Source) & Customer assigned code.			NAME of LABORATORY: IMAT-UVE GmbH			
TEST	SPECIFICATION / LIMITS	TEST DATE	QTY. TESTED	SUPPLIER TEST RESULTS (DATA)	OK	NOT OK
3.4.1 Material Composition Rod	PP Copolymer	N/A	QC, per each lot	PP Copolymer	x	
3.4.2 Density	ISO 1183 0.9 ± 0.2 g/cm ³	25.01.2019	3	0.897	X	
3.4.3 Shore hardness	ISO 868 > 50 D	28.01.2019	5	60.7	X	
3.4.4 Tensile strength	ISO 527-2-1A > 21 MPa	30.01.2019	5	25	X	
3.4.5 Flexural Modulus	ISO 178 > 800 MPa	28.01.2019	5	1098	X	
3.4.4 Heat Deflection Temperature (HDT)	ISO 75-2A 1.82 MPa > 40 ° C	24.01.2019	3	50	X	
3.4.5 Heat Deflection Temperature (HDT)	ISO 75-2A 0.45 MPa > 65 ° C	28.01.2019	3	83	X	
3.4.6 Fogging	DIN 75201-A min. 80%	28.01.2019	4	99.1	X	
3.4.7 Odour	VDA 270 B3 max. 3 grade	29.01.2019	3	3	X	
3.4.8 Flammability - CC	FMVSS 302 ≤ 100 mm/min.	31.01.2019	5	27	X	

Blanket statements of conformance are unacceptable for any test results.

<u>SIGNATURE</u> <i>Ramona Pana</i>	<u>TITLE</u> QC	<u>DATE</u> 25.04.2019
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