



MAGNUM™ 3325 MT

Trinseo - ABS Resin

Sunday, November 3, 2019

General Information

Product Description

Overview:

MAGNUM™ 3325MT is a medium heat ABS. Its inherent low gloss combined with a high flow makes it specifically suitable for unpainted interior automotive applications. MAGNUM 3325MT can thereby help you to save up to 50% of the part costs. It is globally available, locally produced in major car production regions.

Benefits:

- Lot to lot consistency allowing for optimal machine parameters settings from the start
- Self-coloring enabling improvement of costs by using less pigments and lowering your logistic costs
- Low VOC allowing a better interior air quality facing increasing regulatory and OEMs constraints.
- Heat stability during wide range of processing temperatures: enhanced part design freedom
- High scratch and mar resistance for an improved aesthetic durability of the parts
- Easier recyclability of unpainted part

Applications:

- Matt/unpainted interior automotive applications
- Mid-consoles
- Pillars
- Door liners
- Glove boxes

General

Material Status	• Commercial: Active		
Availability	• Asia Pacific • Europe	• Latin America • North America	
Features	• Good Processability		
Uses	• Automotive Applications	• Automotive Interior Trim	• Liners
Automotive Specifications	• CHRYSLER MS-DB-191 Type A CPN1497 Color: Black • CHRYSLER MS-DB-191 Type A CPN1734 Color: Color Match • DAIMLER DBL 5404.80 • FORD ESB-M4D483-A2 • FORD WSK-M4D827-A • FORD WSS-M4D483-C1 • FORD WSS-M4D827-C1 • GM GMP.ABS.003 • GM GMW15572P-ABS-T2 • RNPO AS31		
Forms	• Pellets		
Processing Method	• Injection Molding		

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.05	g/cm ³	ISO 1183/B
Apparent (Bulk) Density	0.65	g/cm ³	ISO 60
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	10	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (220°C/10.0 kg)	11	cm ³ /10min	ISO 1133
Molding Shrinkage	0.40 to 0.70	%	ISO 294-4

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Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (0.126 in, Injection Molded)	319000	psi	ISO 527-2
Tensile Stress (Yield, 0.126 in, Injection Molded)	6240	psi	ISO 527-2/50
Tensile Strain (Yield, 0.126 in, Injection Molded)	3.3	%	ISO 527-2/50
Flexural Modulus ^{2, 3} (0.126 in, Injection Molded)	305000	psi	ISO 178
Flexural Stress ^{2, 3} (0.126 in, Injection Molded)	9430	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			
-22°F, Compression Molded	3.8	ft-lb/in ²	ISO 179/2
-22°F, Injection Molded	5.2	ft-lb/in ²	ISO 179/1eA
73°F, Injection Molded	8.1	ft-lb/in ²	ISO 179/1eA
73°F, Compression Molded	5.7	ft-lb/in ²	ISO 179/2
Notched Izod Impact Strength			ISO 180/1A
-22°F	4.8	ft-lb/in ²	
73°F	8.1	ft-lb/in ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (264 psi, Unannealed)	180	°F	ISO 75-2/A
Heat Deflection Temperature (264 psi, Annealed)	214	°F	ISO 75-2/A
Vicat Softening Temperature	216	°F	ISO 306/B50
Flammability	Nominal Value	Unit	Test Method
Burning Rate ⁴ (0.0787 in)	2.4	in/min	ISO 3795
Flame Rating ⁴			UL 94
0.06 in	HB		
0.12 in	HB		
Carbon Emission ⁴	20.0	µg/g	VDA 277
Fogging ⁴ (212°F)	98	%	ISO 6452

Notes

¹ Typical properties: these are not to be construed as specifications.

² 0.079 in/min

³ 3-points

⁴ This rating not intended to reflect hazards presented by this or any other material under actual fire conditions.