

MAGNUM™ 3325 MT ABS Resin

Overview

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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

Automotive Specifications

- CHRYSLER MS-DB-191 Type A CPN1497 Color: Black
- DAIMLER DBL 5404.80
- FORD WSK-M4D827-A
- FORD WSS-M4D827-C1
- GM GMW15572P-ABS-T2
- CHRYSLER MS-DB-191 Type A CPN1734 Color: Color Match
- FORD ESB-M4D483-A2
- FORD WSS-M4D483-C1
- GM GMP.ABS.003
- RNPO AS31

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.05 g/cm ³	1.05 g/cm ³	ISO 1183/B
Apparent (Bulk) Density	0.65 g/cm ³	0.65 g/cm ³	ISO 60
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	10 g/10 min	10 g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (220°C/10.0 kg)	11 cm ³ /10min	11 cm ³ /10min	ISO 1133
Molding Shrinkage	4.0E-3 to 7.0E-3 in/in	0.40 to 0.70 %	ISO 294-4
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus			ISO 527-2
0.126 in (3.20 mm), Injection Molded	319000 psi	2200 MPa	
Tensile Stress			ISO 527-2/50
Yield, 0.126 in (3.20 mm), Injection Molded	6240 psi	43.0 MPa	
Tensile Strain			ISO 527-2/50
Yield, 0.126 in (3.20 mm), Injection Molded	3.3 %	3.3 %	
Flexural Modulus ^{1, 2}			ISO 178
0.126 in (3.20 mm), Injection Molded	305000 psi	2100 MPa	
Flexural Stress ^{1, 2}			ISO 178
0.126 in (3.20 mm), Injection Molded	9430 psi	65.0 MPa	



Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Notched Impact Strength			
-22°F (-30°C), Compression Molded	3.8 ft·lb/in ²	8.0 kJ/m ²	ISO 179/2
-22°F (-30°C), Injection Molded	5.2 ft·lb/in ²	11 kJ/m ²	ISO 179/1eA
73°F (23°C), Injection Molded	8.1 ft·lb/in ²	17 kJ/m ²	ISO 179/1eA
73°F (23°C), Compression Molded	5.7 ft·lb/in ²	12 kJ/m ²	ISO 179/2
Notched Izod Impact Strength			ISO 180/1A
-22°F (-30°C)	4.8 ft·lb/in ²	10 kJ/m ²	
73°F (23°C)	8.1 ft·lb/in ²	17 kJ/m ²	
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Heat Deflection Temperature			ISO 75-2/A
264 psi (1.8 MPa), Unannealed	180 °F	82.0 °C	
264 psi (1.8 MPa), Annealed	214 °F	101 °C	
Vicat Softening Temperature	216 °F	102 °C	ISO 306/B50
Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Burning Rate ³ (0.0787 in (2.00 mm))	2.4 in/min	60 mm/min	ISO 3795
Flame Rating ³			UL 94
0.06 in (1.5 mm)	HB	HB	
0.12 in (3.0 mm)	HB	HB	
Carbon Emission ³	20.0 µg/g	20.0 µg/g	VDA 277
Fogging ³ (212°F (100°C))	98 %	98 %	ISO 6452

Notes

These are typical properties only and are not to be construed as specifications. Users should confirm results by their own tests.

¹ 0.079 in/min (2.0 mm/min)

² 3-points

³ This rating not intended to reflect hazards presented by this or any other material under actual fire conditions.



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