

MAGNUM™ 3525

ABS Resin

Overview

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MAGNUM™ 3525 is a medium heat ABS. Its inherent low gloss combined with a high flow makes it specifically suitable for unpainted interior automotive applications. MAGNUM™ 3525 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

- FORD WSS-M4D827-A3
- FORD WSS-M4D827-C1
- PSA Peugeot-Citroën ABS-0013
- PSA Peugeot-Citroën ABS-0020
- RNPO AS31

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.05 g/cm³	1.05 g/cm³	ISO 1183/B
Apparent (Bulk) Density	0.65 g/cm³	0.65 g/cm³	ISO 60
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	11 g/10 min	11 g/10 min	ISO 1133
Molding Shrinkage - Flow	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			
Yield, 0.126 in (3.20 mm), Injection Molded	6240 psi	43.0 MPa	ISO 527-2/50
Yield, 0.126 in (3.20 mm), Injection Molded	6380 psi	44.0 MPa	ISO 527-2/100
Tensile Strain			ISO 527-2/50
Yield, 0.126 in (3.20 mm), Injection Molded	3.3 %	3.3 %	ISO 527-2/100
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), Injection Molded	5.2 ft·lb/in ²	11 kJ/m ²	ISO 179/1eA
-22°F (-30°C), Injection Molded	3.8 ft·lb/in ²	8.0 kJ/m ²	ISO 179/2C
73°F (23°C), Injection Molded	8.1 ft·lb/in ²	17 kJ/m ²	ISO 179/1eA
73°F (23°C), Injection Molded	5.7 ft·lb/in ²	12 kJ/m ²	ISO 179/2C
Notched Izod Impact Strength			ISO 180/A
-22°F (-30°C), Injection Molded	4.8 ft·lb/in ²	10 kJ/m ²	
73°F (23°C), Injection Molded	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	172 °F	78.0 °C	
264 psi (1.8 MPa), Annealed	214 °F	101 °C	
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	

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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