

MAGNUM™ A156

ABS Resin

Overview

MAGNUM™ A156 is a high flow ABS resin with excellent gloss property and impact performance. It is designed for injection molding applications. Its stable light base color makes it an ideal candidate for self-coloring process.

Complies with

- U.S. FDA FCN 1525
- Consult the regulation for complete details

For A156 English TDS, pls add the following Application info.

- Applications:

- Household appliances
- Office appliances
- Printers
- Toys

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.05 g/cm ³	1.05 g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	28 g/10 min	28 g/10 min	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 Strength			
Yield ¹	6380 psi	44.0 MPa	ASTM D638
Yield	6380 psi	44.0 MPa	ISO 527-2/50
Break ¹	4350 psi	30.0 MPa	ASTM D638
Break	4350 psi	30.0 MPa	ISO 527-2/50
Tensile Elongation			
Break ¹	10 %	10 %	ASTM D638
Break	15 %	15 %	ISO 527-2/50
Flexural Modulus ²	363000 psi	2500 MPa	ASTM D790
Flexural Strength ²	10900 psi	75.0 MPa	ASTM D790
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Notched Impact Strength (73°F (23°C))	8.6 ft-lb/in ²	18 kJ/m ²	ISO 179/1eA
Notched Izod Impact (73°F (23°C))	4.1 ft-lb/in	220 J/m	ASTM D256
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
264 psi (1.8 MPa), Annealed	198 °F	92.0 °C	
Vicat Softening Temperature	203 °F	95.0 °C	ISO 306/B50
Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Flame Rating ³			UL 94
0.06 in (1.5 mm)	HB	HB	
0.12 in (3.0 mm)	HB	HB	
Additional Information			
Mass balance versions (bio-based (BIO) or chemically recycled (CR)) of this product are chemically and physically indistinguishable to the standard fossil grade. This technical data sheet applies to all versions. Letters of sameness are available upon request.			
Injection	Nominal Value (English)	Nominal Value (SI)	
Drying Temperature	176 to 194 °F	80 to 90 °C	
Drying Time	2.0 to 4.0 hr	2.0 to 4.0 hr	

Notes

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

¹ 2.0 in/min (50 mm/min)

² 0.051 in/min (1.3 mm/min)

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

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