

Technical Information



MAGNUM™ 342 EZ

ABS Resin

Overview

Overview:

MAGNUM™ 342EZ is a standard heat ABS. It is a reliable and cost effective solution for general covered interior automotive applications. MAGNUM™ 342EZ has high flow characteristics supporting part design freedom.

Benefits:

- Lot to lot consistency allowing for optimal machine parameters settings from the start
- 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

Applications:

- General purpose covered interior automotive applications
- Mid-consoles
- Door liners
- Seat trims

Automotive Specifications

- CHRYSLER MS-DB-200 CPN 3457 Color: 90% Color Match
- FORD WSS-M4D483-C1
- FORD WSS-M4D827-C1
- TOYOTA TSM 5512G-2A
- CHRYSLER MS-DB-200 CPN 508 Color: 90% Color Match
- FORD WSS-M4D827-A3
- GM GMW15572P-ABS-T1

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)			ISO 1133
220°C/10.0 kg	23 g/10 min	23 g/10 min	
230°C/3.8 kg	6.0 g/10 min	6.0 g/10 min	
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	268000 psi	1850 MPa	ISO 527-1/1
Tensile Stress (Yield)	5370 psi	37.0 MPa	ISO 527-2/50
Tensile Strain (Yield)	3.0 %	3.0 %	ISO 527-2/50
Flexural Modulus ¹	305000 psi	2100 MPa	ISO 178
Flexural Stress ¹	8120 psi	56.0 MPa	ISO 178
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
73°F (23°C), Injection Molded	6.7 ft·lb/in ²	14 kJ/m ²	
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			
66 psi (0.45 MPa), Annealed	194 °F	90.0 °C	ISO 75-2/B
264 psi (1.8 MPa), Unannealed	169 °F	76.0 °C	ISO 75-2/A
Vicat Softening Temperature	203 °F	95.0 °C	ISO 306/B50
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 0.079 in/min (2.0 mm/min)

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