

Styron MAGNUM[®],ç 342 EZ Acrylonitrile Butadiene Styrene (ABS) Resin

Category : Polymer , Thermoplastic , ABS Polymer

Material Notes:

Overview: MAGNUM[®],ç 342 EZ ABS resin is a medium impact, high flow, low gloss resin often used in automotive applications. Automotive MAGNUM ABS resins offer a wide range of gloss, viscosity, impact strength and heat properties for use in numerous automotive applications. Melt flow rates from 1 to 12 g/10 min, impact strengths from 2.5 to 12 ft-lb/in and heat distortion temperatures from 165 to 190[°]F are available. Available primarily as a natural plus concentrates, MAGNUM ABS resins are used in a wide variety of automotive applications including structural instrument panels, consoles, pillars, and exterior trim parts requiring painting and plating. Applications: Automotive door panels Consoles Interior trim Information provided by Styron

Order this product through the following link:

http://www.lookpolymers.com/polymer_Styron-MAGNUM-342-EZ-Acrylonitrile-Butadiene-Styrene-ABS-Resin.php

Physical Properties	Metric	English	Comments
Density	1.04 g/cc	0.0376 lb/in ³	ASTM D792
Maximum Moisture Content	0.10	0.10	
Linear Mold Shrinkage, Flow	0.0040 - 0.0070 cm/cm	0.0040 - 0.0070 in/in	ASTM D955
Melt Flow	6.0 g/10 min @Load 3.80 kg, Temperature 230 [°] C	6.0 g/10 min @Load 8.38 lb, Temperature 446 [°] F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	41.4 MPa @Thickness 3.20 mm	6000 psi @Thickness 0.126 in	Injection Molded; ASTM D638
Elongation at Yield	3.0 % @Thickness 3.20 mm	3.0 % @Thickness 0.126 in	Injection Molded; ASTM D638
Tensile Modulus	1.79 GPa @Thickness 3.20 mm	260 ksi @Thickness 0.126 in	1 mm/min, Injection Molded; ASTM D638
Flexural Strength	58.6 MPa @Thickness 3.20 mm	8500 psi @Thickness 0.126 in	Method I (3 point load), 2.0 mm/min, Injection Molded; ASTM D790
Flexural Modulus	2.00 GPa @Thickness 3.20 mm	290 ksi @Thickness 0.126 in	Method I (3 point load), 2.0 mm/min, Injection Molded; ASTM D790
Izod Impact, Notched	0.800 J/cm @Thickness 3.20 mm, Temperature -18.0 [°] C	1.50 ft-lb/in @Thickness 0.126 in, Temperature -0.400 [°] F	Injection Molded; ASTM D256

Mechanical Properties	Metric	English	Comments
	@Thickness 3.20 mm, Temperature 23.0 Å°C	@Thickness 0.126 in, Temperature 73.4 Å°F	Injection Molded; ASTM D256
Dart Drop, Total Energy	32.8 J	24.2 ft-lb	Injection Molded, Peak Energy; ASTM D3763
	@Thickness 3.20 mm, Temperature 23.0 Å°C	@Thickness 0.126 in, Temperature 73.4 Å°F	
	42.9 J	31.6 ft-lb	Injection Molded, Total Energy; ASTM D3763
	@Thickness 3.20 mm, Temperature 23.0 Å°C	@Thickness 0.126 in, Temperature 73.4 Å°F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	90.6 Å°C	195 Å°F	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	76.7 Å°C	170 Å°F	Unannealed; ASTM D648
Vicat Softening Point	104 Å°C	219 Å°F	Rate B (120Å°C/h); ASTM D1525
	@Load 1.02 kg	@Load 2.25 lb	

Processing Properties	Metric	English	Comments
Melt Temperature	232 - 246 Å°C	450 - 475 Å°F	
Mold Temperature	26.7 - 48.9 Å°C	80.1 - 120 Å°F	
Drying Temperature	82.2 - 85.0 Å°C	180 - 185 Å°F	
Dry Time	2.00 - 4.00 hour	2.00 - 4.00 hour	
Back Pressure	0.345 - 0.689 MPa	50.0 - 99.9 psi	

Descriptive Properties	Value	Comments
Clamp Tonnage	2.8-4.1 kN/cm ²	
Screw Compression Ratio	1.5:1 to 3.5:1	
Screw L/D Ratio	0.8340277777777778	

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