

Styron MAGNUM[®],ç 8391 Acrylonitrile Butadiene Styrene (ABS) Resin

Category : Polymer , Thermoplastic , ABS Polymer

Material Notes:

Overview: MAGNUM[®],ç 8391 ABS combines an excellent glossy appearance with high flow and medium impact performance. The mass continuous process) ABS technology of Styron ensures an ABS resin that combines excellent processability with a stable light base color that is ideal for self-coloring Applications: Household Appliance Consumer Goods Toys Information provided by Styron

Order this product through the following link:

http://www.lookpolymers.com/polymer_Styron-MAGNUM-8391-Acrylonitrile-Butadiene-Styrene-ABS-Resin.php

Physical Properties	Metric	English	Comments
Density	1.05 g/cc	0.0379 lb/in ³	ASTM D792; ISO 1183/B
Apparent Bulk Density	0.650 g/cc	0.0235 lb/in ³	ISO 60
Linear Mold Shrinkage, Flow	0.0040 - 0.0070 cm/cm	0.0040 - 0.0070 in/in	ASTM D955; ISO 294-4
Melt Flow	8.0 g/10 min	8.0 g/10 min	ASTM D1238
	@Load 3.80 kg, Temperature 230 Å°C	@Load 8.38 lb, Temperature 446 Å°F	
	28 g/10 min	28 g/10 min	ASTM D1238; ISO 1133
	@Load 10.0 kg, Temperature 220 Å°C	@Load 22.0 lb, Temperature 428 Å°F	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	108	108	ASTM D785
Tensile Strength at Break	35.0 MPa	5080 psi	ASTM D638; ISO 527-2
Tensile Strength, Yield	48.0 MPa	6960 psi	50 mm/min; ASTM D638
	45.0 MPa	6530 psi	
	@Thickness 3.20 mm	@Thickness 0.126 in	Injection Molded; ISO 527-2/50
	47.0 MPa	6820 psi	Injection Molded; ISO 527-2/100
	@Thickness 3.20 mm	@Thickness 0.126 in	
Elongation at Break	8.7 %	8.7 %	50 mm/min; ASTM D638
Elongation at Yield	2.7 %	2.7 %	50 mm/min; ASTM D638
	2.5 %	2.5 %	
	@Thickness 3.20 mm	@Thickness 0.126 in	Injection Molded; ISO 527-2/50
	2.6 %	2.6 %	Injection Molded; ISO 527-2/100

Mechanical Properties	@Thickness 3.20 mm Metric	@Thickness 0.126 in English	Comments
Tensile Modulus	2.34 GPa @Thickness 3.20 mm	339 ksi @Thickness 0.126 in	Injection Molded; ISO 527-2
Flexural Strength	75.0 MPa	10900 psi	1.3 mm/min; ASTM D790
	70.0 MPa @Thickness 2.30 mm	10200 psi @Thickness 0.0906 in	3-points, 2 mm/min, Injection Molded; ISO 178
Flexural Modulus	2.48 GPa	360 ksi	1.3 mm/min; ASTM D790
	2.40 GPa @Thickness 2.30 mm	348 ksi @Thickness 0.0906 in	3-points, 2 mm/min, Injection Molded; ISO 178
Izod Impact, Notched	2.30 J/cm @Temperature 23.0 °C	4.31 ft-lb/in @Temperature 73.4 °F	ASTM D256
Izod Impact, Notched (ISO)	9.00 kJ/m ² @Temperature -30.0 °C	4.28 ft-lb/in ² @Temperature -22.0 °F	Injection Molded; ISO 180/A
	19.0 kJ/m ² @Temperature 23.0 °C	9.04 ft-lb/in ² @Temperature 73.4 °F	Injection Molded; ISO 180/A
Charpy Impact, Notched	0.900 J/cm ² @Temperature -30.0 °C	4.28 ft-lb/in ² @Temperature -22.0 °F	Injection Molded; ISO 179/1eA
	1.90 J/cm ² @Temperature 23.0 °C	9.04 ft-lb/in ² @Temperature 73.4 °F	Injection Molded; ISO 179/1eA

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	87.0 °C	189 °F	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	74.0 °C	165 °F	Unannealed; ASTM D648
	95.0 °C	203 °F	Annealed; ISO 75-2/A
Vicat Softening Point	95.0 °C	203 °F	ISO 306/B50
	99.0 °C @Load 1.02 kg	210 °F @Load 2.25 lb	Rate B (120°C/h); ASTM D1525
	HB	HB	

Flammability UL 94 Thermal Properties	Metric @Thickness 1.50 mm	English @Thickness 0.0591 in	Comments
	HB @Thickness 3.00 mm	HB @Thickness 0.118 in	
Flame Spread	60.0 mm/min @Thickness 2.00 mm	2.36 in/min @Thickness 0.0787 in	ISO 3795

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