

Styron Magnum[®],ç 9035 ABS, High Gloss

Category : Polymer , Thermoplastic , ABS Polymer , Acrylonitrile Butadiene Styrene (ABS), Molded

Material Notes:

MAGNUM[®] ABS resins are thermoplastic materials which provide an excellent balance of processability, impact resistance and heat resistance as imparted by the various polymer compositions. MAGNUM ABS resin are available in a wide range of melt flow rates, impact strength and heat resistance for both high and low gloss applications manufactured by injection molding, sheet or profile extrusion and thermoforming. The MAGNUM 9000 series of high gloss ABS resins are designed to offer a wide range of impact strengths and melt flow rates to meet the needs of the durables injection molding markets. The 9000 series products offer typical Izod impact strength values from 210 to 400 J/m and melt flow rates ranging from 2.5 to 7.0 g/10min. The gloss values are typically greater than 95% on the 60. Gardner scale for the highest gloss resins and greater than 90% for those products having a broader range of gloss. MAGNUM 9035 ABS resin utilizes unique technology to provide the highest gloss and impact strength of the MAGNUM 9030 resin combined with a high melt flow rate for ease of processing. MAGNUM 9035 is ideal for applications with long flow lengths and hard to fill molds which require optimum impact resistance. Data provided by Dow Chemical. This product line was spun off from Dow Chemical to Styron in 2010.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Styron-Magnum-9035-ABS-High-Gloss.php

Physical Properties	Metric	English	Comments
Density	1.04 g/cc	0.0376 lb/in ³	ASTM Data
Linear Mold Shrinkage	0.0055 cm/cm	0.0055 in/in	
Melt Flow	6.5 g/10 min @Load 3.80 kg, Temperature 230 °C	6.5 g/10 min @Load 8.38 lb, Temperature 446 °F	ASTM Data

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	31.0 MPa	4500 psi	ASTM Data
Tensile Strength, Yield	37.9 MPa	5500 psi	ASTM Data
Elongation at Break	45 %	45 %	ASTM Data
Tensile Modulus	2.00 GPa	290 ksi	ASTM Data
Izod Impact, Notched	4.00 J/cm	7.49 ft-lb/in	ASTM Data
	2.14 J/cm @Temperature -50.0 °C	4.01 ft-lb/in @Temperature -58.0 °F	ASTM Data
Impact Test	33.9 J @Temperature 23.0 °C	25.0 ft-lb @Temperature 73.4 °F	Instrumented Dart Total Energy

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	90.6 Å°C	195 Å°F	Unannealed; ASTM Data
Deflection Temperature at 1.8 MPa (264 psi)	77.8 Å°C	172 Å°F	Unannealed; ASTM Data
Vicat Softening Point	107 Å°C	225 Å°F	
Flammability, UL94	HB @Thickness 1.60 mm	HB @Thickness 0.0630 in	

Optical Properties	Metric	English	Comments
Gloss	96 %	96 %	Gardner Gloss, 60Å°

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