

Styron Magnum® 9015 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® 9015 ABS resin is a high flow, high gloss grade for complex molded parts with thin walls or long flow lengths offering reduced viscosity without sacrificing the toughness, heat resistance or chemical resistance you expect from an ABS resin. 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-9015-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	12 g/10 min @Load 3.80 kg, Temperature 230 °C	12 g/10 min @Load 8.38 lb, Temperature 446 °F	ASTM Data

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	35.2 MPa	5110 psi	ASTM Data
Tensile Strength, Yield	43.4 MPa	6290 psi	ASTM Data
Elongation at Break	45 %	45 %	ASTM Data
Tensile Modulus	2.41 GPa	350 ksi	ASTM Data
Izod Impact, Notched	2.14 J/cm	4.01 ft-lb/in	ASTM Data
Impact Test	22.6 J @Temperature 23.0 °C	16.7 ft-lb @Temperature 73.4 °F	Instrumented Dart Total Energy

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	93.3 °C	200 °F	Unannealed; ASTM Data

Thermal Properties	Metric	English	Comments
Strength at 1.8 MPa (264 psi)			ASTM D638; ASTM Data
Vicat Softening Point	110 °C	230 °F	
Flammability, UL94	HB	HB	
	@Thickness 1.60 mm	@Thickness 0.0630 in	

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

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