

## Styron Magnum® 9030 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 9030 ABS resin is one of the highest gloss resins combined with the highest impact strength and lowest melt flow rate in the 9000 series. MAGNUM 9030 is used primarily in injection molding applications like floor care equipment where this level of impact resistance is required. 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-9030-ABS-High-Gloss.php](http://www.lookpolymers.com/polymer_Styron-Magnum-9030-ABS-High-Gloss.php)

Physical Properties	Metric	English	Comments
Density	1.04 g/cc	0.0376 lb/in <sup>3</sup>	ASTM Data
Melt Density	0.911 g/cc	0.0329 lb/in <sup>3</sup>	Melt density
Linear Mold Shrinkage	0.0055 cm/cm	0.0055 in/in	
Melt Flow	2.5 g/10 min @Load 3.80 kg, Temperature 230 °C	2.5 g/10 min @Load 8.38 lb, Temperature 446 °F	ASTM Data

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	101	101	
Tensile Strength, Ultimate	31.0 MPa	4500 psi	ASTM Data
Tensile Strength, Yield	37.2 MPa	5400 psi	ASTM Data
Elongation at Break	55 %	55 %	ASTM Data
Elongation at Yield	2.4 %	2.4 %	ISO Data
Tensile Modulus	1.93 GPa	280 ksi	ASTM Data
Izod Impact, Notched	4.00 J/cm	7.49 ft-lb/in	ASTM Data
Charpy Impact Unnotched	NB	NB	ISO Data
	NB	NB	ISO Data, Low Temp

Mechanical Properties	Metric	English	Comments
Energy Impact, Notched	1.50 J/cm <sup>2</sup>	1.12 ft-lb/in <sup>2</sup>	ISO Data, Low Temp
	3.20 J/cm <sup>2</sup>	15.2 ft-lb/in <sup>2</sup>	ISO Data
Impact Test	50.0 J	36.9 ft-lb	Instrumented Dart Total Energy
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	100 Âµm/m-Â°C	55.6 Âµin/in-Â°F	ISO data
	@Temperature 20.0 Â°C	@Temperature 68.0 Â°F	
Specific Heat Capacity	1.96 J/g-Â°C	0.468 BTU/lb-Â°F	
Thermal Conductivity	0.134 W/m-K	0.930 BTU-in/hr-ftÂ²- Â°F	
Deflection Temperature at 0.46 MPa (66 psi)	93.0 Â°C	199 Â°F	Unannealed; ASTM Data
Deflection Temperature at 1.8 MPa (264 psi)	78.0 Â°C	172 Â°F	Unannealed; 100Â°C (212Â°F) annealed; ASTM Data
Vicat Softening Point	107 Â°C	225 Â°F	
Flammability, UL94	HB	HB	
	@Thickness 1.47 mm	@Thickness 0.0579 in	

Optical Properties	Metric	English	Comments
Gloss	95 %	95 %	Gardner Gloss, 60Â°

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