

Styron Magnum® HPC 952 ABS, High Gloss

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

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 sheet and thermoforming grades of MAGNUM ABS resins provide excellent high and low gloss aesthetics, good thermal color stability, heat and impact resistance and stiffness for uses such as luggage, tool cases, burial vault liners, signs and recreation vehicle applications. Offering ranges in melt flow rates from 1.0 to 4.0, sheet Izod impacts from 130 to 560 J/m and sheet flexural modulus from 1960 to 2070 MPa, MAGNUM ABS resins can fill a variety of needs. MAGNUM HPC 952 ABS resin is the stiffest grade in the high gloss, sheet product line. With a melt flow rate of 1.2 g/10 min., MAGNUM HPC 952 has very good impact strength, good tensile and flexural properties and a Gardner 60. Gloss of 65 - 95 % as measured on thermoformed parts. 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-HPC-952-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	1.2 g/10 min @Load 3.80 kg, Temperature 230 °C	1.2 g/10 min @Load 8.38 lb, Temperature 446 °F	ASTM Data

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	28.3 MPa	4100 psi	ASTM Data
Tensile Strength, Yield	39.3 MPa	5700 psi	ASTM Data
Elongation at Break	50 %	50 %	ASTM Data
Elongation at Yield	2.6 %	2.6 %	ISO Data
Tensile Modulus	2.00 GPa	290 ksi	ASTM Data
Izod Impact, Notched	5.34 J/cm	10.0 ft-lb/in	ASTM Data
Charpy Impact Unnotched	NB	NB	ISO Data
	NB	NB	ISO Data, Low Temp
Charpy Impact, Notched	1.80 J/cm ²	8.57 ft-lb/in ²	ISO Data, Low Temp
	4.40 J/cm ²	20.9 ft-lb/in ²	ISO Data

Mechanical Properties	Metric	English	Comments
Impact Test	@Temperature 23.0 Â°C	37.6 ft-lb @Temperature 73.4 Â°F	Instrumented Dart Total Energy

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	82.0 Âµm/m-Â°C @Temperature 20.0 Â°C	45.6 Âµin/in-Â°F @Temperature 68.0 Â°F	ISO data
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)	79.0 Â°C	174 Â°F	Unannealed; ASTM Data
Vicat Softening Point	107 Â°C	225 Â°F	
Flammability, UL94	HB @Thickness 1.47 mm	HB @Thickness 0.0579 in	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China