

Styron Magnum[®] 800 ABS

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 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 800 ABS resin has slightly higher flow and higher impact strength than MAGNUM HPC 952. With a sheet Izod impact strength of 530 J/m, MAGNUM 800 ABS resin also offers medium gloss and the whitest base resin color of the MAGNUM sheet grades. 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-800-ABS.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	2.2 g/10 min @Load 3.80 kg, Temperature 230 °C	2.2 g/10 min @Load 8.38 lb, Temperature 446 °F	ASTM Data

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	105	105	
Tensile Strength, Yield	41.4 MPa	6000 psi	ASTM Data
Elongation at Yield	2.8 %	2.8 %	ISO Data
Tensile Modulus	2.00 GPa	290 ksi	ASTM Data
Izod Impact, Notched	6.40 J/cm	12.0 ft-lb/in	ASTM Data
Charpy Impact Unnotched	NB	NB	ISO Data
	NB	NB	ISO Data, Low Temp
Charpy Impact, Notched	1.60 J/cm ²	7.61 ft-lb/in ²	ISO Data, Low Temp
	6.30 J/cm ²	30.0 ft-lb/in ²	ISO Data
	54.0 J		

Mechanical Properties	Metric	English	Comments
	@Temperature 23.0 Â°C	39.8 ft-lb @Temperature 73.4 Â°F	Instrumented Dart Total Energy

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	80.0 Âµm/m-Â°C @Temperature 20.0 Â°C	44.4 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
	98.9 Â°C	210 Â°F	Annealed; ASTM Data
Vicat Softening Point	107 Â°C	225 Â°F	
Flammability, UL94	HB @Thickness 1.47 mm	HB @Thickness 0.0579 in	

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