

Styron Magnum® 2630 ABS, High Impact

Category : Polymer , Thermoplastic , ABS Polymer , Acrylonitrile Butadiene Styrene (ABS), Heat Resistant, 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 2600 series of MAGNUM ABS resins are designated for use in healthcare applications. Both high and low gloss resins are available which have passed the USP XXIII Class IV medical testing. Other non-USP classified testing is also done on the MAGNUM 2600 series of ABS resins to evaluate the biocompatibility of the resins. MAGNUM 2630 ABS resin offers the highest impact strength in the healthcare product line. With an Izod strength of 400 J/m, MAGNUM 2630 is applicable for applications requiring this type of impact resistance in a high gloss 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-2630-ABS-High-Impact.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	2.5 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
Charpy Impact, Notched	1.50 J/cm ²	7.14 ft-lb/in ²	ISO Data, Low Temp
	3.20 J/cm ²	15.2 ft-lb/in ²	ISO Data

Mechanical Properties	Metric	English	Comments
Impact Test	50.0 J @Temperature 23.0 Â°C	lb @Temperature 73.4 Â°F	Instrumented Dart Total Energy

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	100 Âµm/m-Â°C @Temperature 20.0 Â°C	55.6 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)	78.0 Â°C	172 Â°F	Unannealed; 100Â°C (212Â°F) annealed; ASTM Data
Vicat Softening Point	107 Â°C	225 Â°F	

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

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