

Styron Magnum[®] 585 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. MAGNUM ABS resins offer a range of gloss and processability options for sprinkler and irrigation applications. Providing high tensile strength with a balance of flow and impact resistance, MAGNUM ABS resins are used in pop-up sprinkler bodies, risers and valves. MAGNUM 585 ABS resin is a low gloss ABS resin providing a high impact strength of 425 J/m with a low melt flow rate of 2.5 g/10 min. for use in irrigation applications. 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-585-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	2.4 g/10 min @Load 3.80 kg, Temperature 230 °C	2.4 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 Yield	2.6 %	2.6 %	ISO Data
Tensile Modulus	2.34 GPa	339 ksi	ASTM Data
Izod Impact, Notched	4.27 J/cm	8.00 ft-lb/in	ASTM Data
Charpy Impact Unnotched	NB	NB	ISO Data
	NB	NB	ISO Data, Low Temp
Charpy Impact, Notched	1.20 J/cm ²	5.71 ft-lb/in ²	ISO Data, Low Temp
	4.00 J/cm ²	19.0 ft-lb/in ²	ISO Data

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	79.0 μm/m-°C @Temperature 20.0	43.9 μin/in-°F	ISO data

Thermal Properties	°C Metric	@Temperature 68.0 °F English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	82.0 °C	180 °F	ISO Data
Vicat Softening Point	108 °C	226 °F	
Flammability, UL94	HB @Thickness 1.47 mm	HB @Thickness 0.0579 in	

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