

Styron Magnum,ç PG914 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 resins 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 PG914 and FG960 ABS resins are specifically designated for use as pipe and fittings for Drain, Waste and Vent applications which meet ASTM D-2661 DWV, D2750 Conduit, D2751 Sewer, F-480 Well Casing and F-628 Cellular Core DWV standards. MAGNUM PG960 and FG914 are listed under standard 14 of the National Sanitation Foundation. MAGNUM PG914 ABS resin is a low gloss, high impact strength thermoplastic resin. Sold as prime, virgin material, it is used as a blending resin in the pipe extrusion markets for drains and vents. 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-PG914-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	2.6 g/10 min @Load 3.80 kg, Temperature 230 °C	2.6 g/10 min @Load 8.38 lb, Temperature 446 °F	ASTM Data

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	37.9 MPa	5500 psi	ASTM Data
Elongation at Break	50 %	50 %	ASTM Data
Elongation at Yield	2.6 %	2.6 %	ISO Data
Tensile Modulus	1.93 GPa	280 ksi	ASTM Data
Izod Impact, Notched	1.92 J/cm	3.60 ft-lb/in	ASTM Data
Charpy Impact Unnotched	NB	NB	ISO Data
	NB	NB	ISO Data, Low Temp
Charpy Impact, Notched	0.900 J/cm ²	4.28 ft-lb/in ²	ISO Data, Low Temp
	2.20 J/cm ²	10.5 ft-lb/in ²	ISO Data

Thermal Properties	Metric	English	Comments
	79.0 µm/m-°C	43.9 µin/in-°F	

CTE linear Parallel to Flow Thermal Properties	Metric @ Temperature 20.0 Â°C	English @ Temperature 68.0 Â°F	ISO data Comments
Deflection Temperature at 1.8 MPa (264 psi)	102 Â°C	216 Â°F	Annealed; ASTM Data
Vicat Softening Point	107 Â°C	225 Â°F	

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