

## Styron Magnum® FG960 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 FG960 ABS resin is a low gloss, high impact strength resin. Sold as prime, virgin material, it is injection molded directly into pipe fittings for the drain, waste and vent markets. MAGNUM FG960 is available in clack as a factory color mix product (natural resin with black color concentrate), designated No. 21050-Black-7. 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-FG960-ABS-High-Impact.php](http://www.lookpolymers.com/polymer_Styron-Magnum-FG960-ABS-High-Impact.php)

Physical Properties	Metric	English	Comments
Density	1.04 g/cc	0.0376 lb/in <sup>3</sup>	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
Hardness, Rockwell R	104	104	
Tensile Strength, Ultimate	35.9 MPa	5210 psi	ASTM Data
Tensile Strength, Yield	37.2 MPa	5400 psi	ASTM Data
Elongation at Break	70 %	70 %	ASTM Data
Elongation at Yield	2.6 %	2.6 %	ISO Data
Tensile Modulus	1.86 GPa	270 ksi	ASTM Data
Izod Impact, Notched	2.46 J/cm	4.61 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 <sup>2</sup>	4.28 ft-lb/in <sup>2</sup>	ISO Data, Low Temp

Mechanical Properties	2.20 J/cm <sup>2</sup> Metric	10.5 ft-lb/in <sup>2</sup> English	ISO Data Comments
<b>Thermal Properties</b>	<b>Metric</b>	<b>English</b>	<b>Comments</b>
CTE, linear, Parallel to Flow	79.0 Åµm/m-Å°C @Temperature 20.0 Å°C	43.9 Åµin/in-Å°F @Temperature 68.0 Å°F	ISO data
Deflection Temperature at 1.8 MPa (264 psi)	76.7 Å°C	170 Å°F	Unannealed; 101Å°C (214Å°F) annealed; ASTM Data
Vicat Softening Point	105 Å°C	221 Å°F	
<b>Optical Properties</b>	<b>Metric</b>	<b>English</b>	<b>Comments</b>
Gloss	40 %	40 %	Gardner Gloss, 60Å°

## Contact Songhan Plastic Technology Co.,Ltd.

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