

## Styron Magnum® 213 ABS, General Purpose

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 wide range of processability and impact resistance for low gloss injection molding applications. Combined with heat resistance and tensile and flexural strength, MAGNUM ABS resins are used in a wide variety of injection molding applications. MAGNUM 213 ABS resin is a low gloss, general purpose resin with easy flow. MAGNUM 213 has a melt flow rate of 5.5 g/10 min and a relatively low Izod impact strength of 105 J/m. 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-213-ABS-General-Purpose.php](http://www.lookpolymers.com/polymer_Styron-Magnum-213-ABS-General-Purpose.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	5.5 g/10 min @Load 3.80 kg, Temperature 230 °C	5.5 g/10 min @Load 8.38 lb, Temperature 446 °F	ASTM Data

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	105	105	
Tensile Strength, Ultimate	34.5 MPa	5000 psi	ASTM Data
Tensile Strength, Yield	29.6 MPa	4290 psi	ASTM Data
Elongation at Yield	1.7 %	1.7 %	ISO Data
Tensile Modulus	2.48 GPa	360 ksi	ASTM Data
Izod Impact, Notched	1.07 J/cm	2.00 ft-lb/in	ASTM Data
Charpy Impact Unnotched	NB	NB	ISO Data
	NB	NB	ISO Data, Low Temp
Charpy Impact, Notched	0.600 J/cm <sup>2</sup>	2.86 ft-lb/in <sup>2</sup>	ISO Data, Low Temp
	0.900 J/cm <sup>2</sup>	4.28 ft-lb/in <sup>2</sup>	ISO Data
Impact Test	34.0 J	25.1 ft-lb	Instrumented Dart Total Energy

Mechanical Properties	Metric	English	Comments
Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	71.0 Åµm/m-Å°C	39.4 Åµin/in-Å°F	ISO data
	@Temperature 20.0 Å°C	@Temperature 68.0 Å°F	
Deflection Temperature at 1.8 MPa (264 psi)	73.9 Å°C	165 Å°F	Unannealed; ASTM Data
	96.1 Å°C	205 Å°F	Annealed; ASTM Data
Vicat Softening Point	104 Å°C	219 Å°F	
Flammability, UL94	HB	HB	
	@Thickness 1.47 mm	@Thickness 0.0579 in	
Optical Properties	Metric	English	Comments
Gloss	40 %	40 %	Gardner Gloss, 60Å°

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