

Styron Magnum[®],ç 348 ABS, Low Gloss

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 348 ABS resin is a low gloss, low impact strength resin with good processability. MAGNUM 348 has a slight advantage in melt flow rate and impact strength over MAGNUM 341. 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-348-ABS-Low-Gloss.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	6.0 g/10 min @Load 3.80 kg, Temperature 230 °C	6.0 g/10 min @Load 8.38 lb, Temperature 446 °F	ASTM Data

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	41.4 MPa	6000 psi	ASTM Data
Elongation at Yield	2.3 %	2.3 %	ISO Data
Tensile Modulus	1.79 GPa	260 ksi	ASTM Data
Izod Impact, Notched	1.60 J/cm	3.00 ft-lb/in	ASTM Data
Charpy Impact Unnotched	NB	NB	ISO Data
	NB	NB	ISO Data, Low Temp
Charpy Impact, Notched	0.800 J/cm ²	3.81 ft-lb/in ²	ISO Data, Low Temp
	1.60 J/cm ²	7.61 ft-lb/in ²	ISO Data
Impact Test	43.0 J @Temperature 23.0 °C	31.7 ft-lb @Temperature 73.4 °F	Instrumented Dart Total Energy

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	79.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$ @Temperature 20.0 $\text{Å}^\circ\text{C}$	43.9 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$ @Temperature 68.0 $\text{Å}^\circ\text{F}$	ISO data
Deflection Temperature at 0.46 MPa (66 psi)	91.0 $\text{Å}^\circ\text{C}$	196 $\text{Å}^\circ\text{F}$	Unannealed; ASTM Data
Deflection Temperature at 1.8 MPa (264 psi)	77.0 $\text{Å}^\circ\text{C}$	171 $\text{Å}^\circ\text{F}$	Unannealed; ASTM Data
Vicat Softening Point	104 $\text{Å}^\circ\text{C}$	219 $\text{Å}^\circ\text{F}$	
Flammability, UL94	HB @Thickness 1.47 mm	HB @Thickness 0.0579 in	

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