

## Styron Magnum™ 3490 ABS, High 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. The Automotive grades of MAGNUM ABS resins offer a wide range of gloss, viscosity, impact strength and heat properties for use in numerous automotive applications. Melt flow rates from 1 to 12 g/10 min, impact strengths from 130 to 590 J/m and heat distortion temperatures from 77.C to 90.C are available. Available primarily as natural plus concentrates, MAGNUM ABS resins are used in a wide variety of automotive applications including structural instrument panels, consoles, pillars and exterior trim parts requiring painting and plating. MAGNUM 3490 ABS resin is a high gloss, medium impact resin with good flow characteristics. Using technology different from the other automotive grades, MAGNUM 3490 ABS resin is often selected for automotive trim where good adhesion and smooth surfaces are required for painting and plating. 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-3490-ABS-High-Gloss.php](http://www.lookpolymers.com/polymer_Styron-Magnum-3490-ABS-High-Gloss.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	7.0 g/10 min @Load 3.80 kg, Temperature 230 °C	7.0 g/10 min @Load 8.38 lb, Temperature 446 °F	ASTM Data

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	107	107	
Tensile Strength, Ultimate	34.5 MPa	5000 psi	ASTM Data
Tensile Strength, Yield	42.7 MPa	6190 psi	ASTM Data
Elongation at Yield	2.4 %	2.4 %	ISO Data
Tensile Modulus	2.21 GPa	321 ksi	ASTM Data
Izod Impact, Notched	2.14 J/cm	4.01 ft-lb/in	ASTM Data
Charpy Impact Unnotched	8.00 J/cm <sup>2</sup>	38.1 ft-lb/in <sup>2</sup>	ISO Data, Low Temp
	NB	NB	ISO Data
Charpy Impact, Notched	0.500 J/cm <sup>2</sup>	2.38 ft-lb/in <sup>2</sup>	ISO Data, Low Temp
	1.70 J/cm <sup>2</sup>	8.09 ft-lb/in <sup>2</sup>	ISO Data

Mechanical Properties	Metric	English	Comments
Impact Test	@Temperature 23.0 °C	@Temperature 73.4 °F	Instrumented Dart Total Energy

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	97.0 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$ @Temperature 20.0 °C	53.9 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$ @Temperature 68.0 °F	ISO data
Deflection Temperature at 0.46 MPa (66 psi)	94.0 °C	201 °F	Unannealed; ASTM Data
Deflection Temperature at 1.8 MPa (264 psi)	79.4 °C	175 °F	Unannealed; 106°C (223°F) annealed; ASTM Data
Vicat Softening Point	108 °C	226 °F	

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