Styron Magnumâ„¢ 347EZ ABS

Category : Polymer , Thermoplastic , ABS Polymer , Acrylonitrile Butadiene Styrene (ABS), Molded

Material Notes:

MAGNUMÂ® 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 347EZ ABS resin is a higher flow version of 342EZ having slightly lower impact strength. The melt flow rate of about 12 g/10 min is often suitable for parts with long flow lines and less stringent impact requirements.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-347EZ-ABS.php

Physical Properties	Metric	English	Comments
Density	1.04 g/cc	0.0376 lb/inÂ³	ASTM Data
Linear Mold Shrinkage	0.0055 cm/cm	0.0055 in/in	
Melt Flow	15 g/10 min @Load 3.80 kg, Temperature 230 Â°C	15 g/10 min @Load 8.38 lb, Temperature 446 Â°F	ASTM Data

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	37.9 MPa	5500 psi	ASTM Data
Elongation at Break	110 %	110 %	ASTM Data
Tensile Modulus	2.07 GPa	300 ksi	ASTM Data
Izod Impact, Notched	1.33 J/cm	2.49 ft-lb/in	ASTM Data
Impact Test	16.0 J @Temperature -30.0 Â°C	11.8 ft-lb @Temperature -22.0 Â°F	Instrumented Dart Total Energy
	35.0 J @Temperature 23.0 Â°C	25.8 ft-lb @Temperature 73.4 Â°F	Instrumented Dart Total Energy

Thermal Properties	Metric	English	Comments

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	72.0 Âµm/m-Â°C @Temperature 20.0 Â°C	40.0 µin/in-Â°F @Temperature 68.0 Â°F	ASTM data
Deflection Temperature at 0.46 MPa (66 psi)	68.0 Â°C	154 Â°F	Unannealed; ASTM Data
Deflection Temperature at 1.8 MPa (264 psi)	77.0 Â°C	171 Â°F	Unannealed; ASTM Data
Vicat Softening Point	103 Â°C	217 Â°F	

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