Styron Magnumâ, ¢ 2645 ABS, Impact Grade

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 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 2600 series of MAGNUM ABS resins are designated for use in healthcare applications. Both high and low gloss resins are available which have passed the USP XXIII Class IV medical testing. Other non-USP classified testing is also done on the MAGNUM 2600 series of ABS resins to evaluate the biocompatibility of the resins. MAGNUM 2645 ABS resin is a higher impact strength version of the low gloss MAGNUM 2642. With an Izod impact strength of 290 J/m, it is applicable to those low gloss applications needing a moderate amount of impact strength while maintaining its processability. 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-2645-ABS-Impact-Grade.php

Physical Properties	Metric	English	Comments
Density	1.04 g/cc	0.0376 lb/in³	ASTM Data
Linear Mold Shrinkage	0.0055 cm/cm	0.0055 in/in	
	6.0 g/10 min	6.0 g/10 min	
Melt Flow	@Load 3.80 kg, Temperature 230 °C	@Load 8.38 lb, Temperature 446 °F	ASTM Data

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	104	104	
Tensile Strength, Yield	44.8 MPa	6500 psi	ASTM Data
Elongation at Yield	2.5 %	2.5 %	ISO Data
Tensile Modulus	2.21 GPa	321 ksi	ASTM Data
Izod Impact, Notched	2.88 J/cm	5.40 ft-lb/in	ASTM Data
Charpy Impact Unnotched	8.00 J/cmÂ ²	38.1 ft-lb/in²	ISO Data, Low Temp
	NB	NB	ISO Data
Charpy Impact, Notched	0.800 J/cm²	3.81 ft-Ib/in²	ISO Data, Low Temp
	2.40 J/cmÂ ²	11.4 ft-lb/in²	ISO Data
	51.0 J	37.6 ft-lb	
Impact Test	@Temperature 23.0		Instrumented Dart Total Energy

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Mechanical Properties	ŰC Metric	@Temperature 73.4 ŰF English	Comments	
Thermal Properties	Metric	English	Comments	
CTE, linear, Parallel to Flow	102 µm/m-°C	56.7 µin/in-°F	ISO data	
	@Temperature 20.0 °C	@Temperature 68.0 °F		
Deflection Temperature at 0.46 MPa (66 psi)	93.0 °C	199 °F	Unannealed; ASTM Data	
Deflection Temperature at 1.8 MPa (264 psi)	79.0 °C	174 °F	Unannealed; ASTM Data	
	96.1 °C	205 °F	Annealed; ASTM Data	
Vicat Softening Point	104 °C	219 °F		

Optical Properties	Metric	English	Comments
Gloss	52.5 %	52.5 %	Gardner Gloss, 60°

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