

Styron Magnumâ, ¢ 780HP ABS, High Heat, High Impact

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.MAGNUM® 780HP ABS resin is a low gloss, high heat, high impact grade designed for use in small household appliances. It offers a good balance of physical properties and excellent injection molding characteristics.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-780HP-ABS-High-Heat-High-Impact.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	
Melt Flow	3.0 g/10 min	3.0 g/10 min	
	@Load 3.80 kg, Temperature 230 °C	@Load 8.38 lb, Temperature 446 °F	ASTM Data

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	108	108	
Tensile Strength, Yield	44.8 MPa	6500 psi	ASTM Data
Elongation at Yield	2.5 %	2.5 %	ISO Data
Tensile Modulus	2.07 GPa	300 ksi	ASTM Data
Izod Impact, Notched	2.40 J/cm	4.50 ft-lb/in	ASTM Data
Charpy Impact Unnotched	NB	NB	ISO Data
	NB	NB	ISO Data, Low Temp
Charpy Impact, Notched	0.700 J/cm²	3.33 ft-lb/in²	ISO Data, Low Temp
	2.00 J/cm²	9.52 ft-lb/in²	ISO Data
Impact Test	45.0 J	33.2 ft-lb	
	@Temperature 23.0 °C	@Temperature 73.4 °F	Instrumented Dart Total Energy

Thermal Properties	Metric	English	Comments



Thermal Properties	Metricµm/m-Á°C	Englishin/in-ŰF	Comments
CTE, linear, Parallel to Flow	@Temperature 20.0 °C	@Temperature 68.0 °F	ISO data
Deflection Temperature at 0.46 MPa (66 psi)	96.1 °C	205 °F	Unannealed; ASTM Data
Deflection Temperature at 1.8 MPa (264 psi)	83.0 °C	181 °F	Unannealed; 103°C (217°F) annealed; ASTM Data
Vicat Softening Point	111 °C	232 °F	

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

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