

Styron Magnum® 758HP 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® 758HP 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-758HP-ABS-High-Heat-High-Impact.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	2.5 g/10 min @Load 3.80 kg, Temperature 230 °C	2.5 g/10 min @Load 8.38 lb, Temperature 446 °F	ASTM Data

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	47.6 MPa	6900 psi	ASTM Data
Elongation at Break	15 %	15 %	ASTM Data
Tensile Modulus	2.34 GPa	339 ksi	ASTM Data
Izod Impact, Notched	2.19 J/cm	4.10 ft-lb/in	ASTM Data
Impact Test	42.0 J @Temperature 23.0 °C	31.0 ft-lb @Temperature 73.4 °F	Instrumented Dart Total Energy

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	105 °C	221 °F	Unannealed; ASTM Data
Deflection Temperature at 1.8 MPa (264 psi)	90.0 °C	194 °F	Unannealed; ASTM Data
Vicat Softening Point	117 °C	243 °F	

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