

Styron Magnum[®] 4455 ABS

Category : Polymer , Thermoplastic , ABS Polymer , Acrylonitrile Butadiene Styrene (ABS), Unreinforced, Flame Retardant

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 MAGNUM 4400 series of ignition resistant ABS resins are specifically engineered for information and technology equipment applications. These resins can be injection molded or extruded into applications like monitors, copiers and printers; housings and surge protectors. MAGNUM 4455 ABS resin is ignition resistant with excellent processability and practical toughness. MAGNUM 4455 also is color stable having less than 1 unit (E color change when tested with the Xenon Arc ASTM D4459-86 test method on white and light gray colors. 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-4455-ABS.php

Physical Properties	Metric	English	Comments
Density	1.18 g/cc	0.0426 lb/in ³	ASTM Data
Melt Density	1.12 g/cc	0.0405 lb/in ³	Melt density
Linear Mold Shrinkage	0.0055 cm/cm	0.0055 in/in	
Melt Flow	9.5 g/10 min @Load 3.80 kg, Temperature 230 °C	9.5 g/10 min @Load 8.38 lb, Temperature 446 °F	ASTM Data

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	31.7 MPa	4600 psi	ASTM Data
Tensile Strength, Yield	39.3 MPa	5700 psi	ASTM Data
Elongation at Break	20 %	20 %	ASTM Data
Tensile Modulus	1.93 GPa	280 ksi	ASTM Data
Izod Impact, Notched	1.60 J/cm	3.00 ft-lb/in	ASTM Data
Impact Test	30.0 J @Temperature 23.0 °C	22.1 ft-lb @Temperature 73.4 °F	Instrumented Dart Total Energy

Thermal Properties	Metric	English	Comments
Specific Heat Capacity	1.90 J/g-°C	0.454 BTU/lb-°F	
	0.173 W/m-K	1.20 BTU-in/hr-ft ² -	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	71.7 Å°C	161 Å°F	Unannealed; ASTM Data
Vicat Softening Point	96.1 Å°C	205 Å°F	
Flammability, UL94	5VA	5VA	
	@Thickness 2.50 mm	@Thickness 0.0984 in	
	5VA	5VA	UL94
	@Thickness 1.60 mm	@Thickness 0.0630 in	

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