

Styron Magnum™ 4435 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 4435 ABS resin is ignition resistant with excellent processability and practical toughness. 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-4435-ABS.php

Physical Properties	Metric	English	Comments
Density	1.22 g/cc	0.0441 lb/in ³	ASTM Data
Melt Density	1.10 g/cc	0.0397 lb/in ³	Melt density
Linear Mold Shrinkage	0.0055 cm/cm	0.0055 in/in	
Melt Flow	11 g/10 min @Load 3.80 kg, Temperature 230 °C	11 g/10 min @Load 8.38 lb, Temperature 446 °F	ASTM Data

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	30.3 MPa	4390 psi	ASTM Data
Tensile Strength, Yield	40.0 MPa	5800 psi	ASTM Data
Elongation at Break	35 %	35 %	ASTM Data
Tensile Modulus	2.07 GPa	300 ksi	ASTM Data
Izod Impact, Notched	1.60 J/cm	3.00 ft-lb/in	ASTM Data
Impact Test	32.0 J @Temperature 23.0 °C	23.6 ft-lb @Temperature 73.4 °F	Instrumented Dart Total Energy

Thermal Properties	Metric	English	Comments
Specific Heat Capacity	1.80 J/g-°C	0.430 BTU/lb-°F	
Thermal Conductivity	0.175 W/m-K	1.21 BTU-in/hr-ft ² -°F	
Deflection Temperature at 1.8 MPa			

<small>(264 psi)</small> Thermal Properties	<small>71.1 °C</small> Metric	<small>160 °F</small> English	Unannealed; ASTM Data Comments
Vicat Softening Point	95.6 °C	204 °F	
Flammability, UL94	5VA	5VA	UL94 V-0/1.6 mm
	5VA @Thickness 2.50 mm	5VA @Thickness 0.0984 in	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China