

Styron Magnum® 2620 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 2620 ABS resin is a high gloss ABS with slightly higher impact strength over 2610 and has a slightly lower melt flow rate. MAGNUM 2620 represents the balance between flow and impact strength in the high gloss resins. 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-2620-ABS-Impact-Grade.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	5.0 g/10 min @Load 3.80 kg, Temperature 230 °C	5.0 g/10 min @Load 8.38 lb, Temperature 446 °F	ASTM Data

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	107	107	
Tensile Strength, Ultimate	33.1 MPa	4800 psi	ASTM Data
Tensile Strength, Yield	41.4 MPa	6000 psi	ASTM Data
Elongation at Break	50 %	50 %	ASTM Data
Elongation at Yield	2.5 %	2.5 %	ISO Data
Tensile Modulus	2.07 GPa	300 ksi	ASTM Data
Izod Impact, Notched	2.94 J/cm	5.51 ft-lb/in	ASTM Data
Charpy Impact Unnotched	8.00 J/cm ²	38.1 ft-lb/in ²	ISO Data, Low Temp
	NB	NB	ISO Data
Charpy Impact, Notched	0.800 J/cm ²	3.81 ft-lb/in ²	ISO Data, Low Temp
	2.40 J/cm ²	11.4 ft-lb/in ²	ISO Data

Mechanical Properties	Metric	English	Comments
Impact Test	50.0 J	lb	Instrumented Dart Total Energy
	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	102 Åµm/m-Å°C	56.7 Åµin/in-Å°F	ISO data
	@Temperature 20.0 Å°C	@Temperature 68.0 Å°F	
Deflection Temperature at 0.46 MPa (66 psi)	94.0 Å°C	201 Å°F	Unannealed; ASTM Data
Deflection Temperature at 1.8 MPa (264 psi)	79.0 Å°C	174 Å°F	Unannealed; 104Å°C (219Å°F) annealed; ASTM Data
Vicat Softening Point	108 Å°C	226 Å°F	

Optical Properties	Metric	English	Comments
Gloss	95 %	95 %	Gardner Gloss, 60Å°

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