

Styron Magnum® 8325 ABS, Sheet Coextrusion Grade

Category : Polymer , Thermoplastic , ABS Polymer , Acrylonitrile Butadiene Styrene (ABS), Sheet

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® 8325 ABS resin is a low gloss sheet coextrusion grade. 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-8325-ABS-Sheet-Coextrusion-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	2.6 g/10 min @Load 3.80 kg, Temperature 230 °C	2.6 g/10 min @Load 8.38 lb, Temperature 446 °F	ASTM Data

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	34.5 MPa	5000 psi	ASTM Data
Tensile Strength, Yield	37.2 MPa	5400 psi	ASTM Data
Elongation at Break	100 %	100 %	ASTM Data
Elongation at Yield	2.6 %	2.6 %	ISO Data
Tensile Modulus	1.83 GPa	265 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	0.900 J/cm ²	4.28 ft-lb/in ²	ISO Data, Low Temp
	2.20 J/cm ²	10.5 ft-lb/in ²	ISO Data
Impact Test	46.0 J @Temperature 23.0 °C	33.9 ft-lb @Temperature 73.4 °F	Instrumented Dart Total Energy

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	79.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	43.9 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ISO data
	@Temperature 20.0 $\text{Å}^\circ\text{C}$	@Temperature 68.0 $\text{Å}^\circ\text{F}$	
Deflection Temperature at 0.46 MPa (66 psi)	93.0 $\text{Å}^\circ\text{C}$	199 $\text{Å}^\circ\text{F}$	Unannealed; ASTM Data
Deflection Temperature at 1.8 MPa (264 psi)	79.0 $\text{Å}^\circ\text{C}$	174 $\text{Å}^\circ\text{F}$	Unannealed; ASTM Data
Vicat Softening Point	107 $\text{Å}^\circ\text{C}$	225 $\text{Å}^\circ\text{F}$	
Flammability, UL94	HB	HB	
	@Thickness 1.47 mm	@Thickness 0.0579 in	

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