

Styron Magnum[®] 555 ABS

Category : Polymer , Thermoplastic , ABS Polymer , Acrylonitrile Butadiene Styrene (ABS), 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 sheet and thermoforming grades of MAGNUM ABS resins provide excellent high and low gloss aesthetics, good thermal color stability, heat and impact resistance and stiffness for uses such as luggage, tool cases, burial vault liners, signs and recreation vehicle applications. Offering ranges in melt flow rates from 1.0 to 4.0, sheet Izod impacts from 130 to 560 J/m and sheet flexural modulus from 1960 to 2070 MPa, MAGNUM ABS resins can fill a variety of needs. MAGNUM 555 ABS resin provides the same flow and gloss as MAGNUM 800 with a slightly higher base resin color and a sheet Izod of 350 J/m. 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-555-ABS.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	2.4 g/10 min @Load 3.80 kg, Temperature 230 °C	2.4 g/10 min @Load 8.38 lb, Temperature 446 °F	ASTM Data

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	102	102	
Tensile Strength, Ultimate	35.2 MPa	5110 psi	ASTM Data
Tensile Strength, Yield	43.4 MPa	6290 psi	ASTM Data
Elongation at Yield	2.6 %	2.6 %	ISO Data
Tensile Modulus	2.34 GPa	339 ksi	ASTM Data
Izod Impact, Notched	4.27 J/cm	8.00 ft-lb/in	ASTM Data
Charpy Impact Unnotched	NB	NB	ISO Data
	NB	NB	ISO Data, Low Temp
Charpy Impact, Notched	1.20 J/cm ²	5.71 ft-lb/in ²	ISO Data, Low Temp
	4.00 J/cm ²	19.0 ft-lb/in ²	ISO Data

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	71.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	39.4 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ISO data
	@Temperature 20.0 $\text{Å}^\circ\text{C}$	@Temperature 68.0 $\text{Å}^\circ\text{F}$	
Deflection Temperature at 1.8 MPa (264 psi)	98.9 $\text{Å}^\circ\text{C}$	210 $\text{Å}^\circ\text{F}$	Annealed; ASTM Data
Vicat Softening Point	108 $\text{Å}^\circ\text{C}$	226 $\text{Å}^\circ\text{F}$	
Flammability, UL94	HB	HB	
	@Thickness 1.47 mm	@Thickness 0.0579 in	

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