

Americas Styrenics STYRON™ 487 High-Impact Polystyrene Resin

Category : Polymer , Thermoplastic , Polystyrene (PS) , Polystyrene, Impact Modified

Material Notes:

STYRON™ 487 is a high-impact polystyrene with an excellent balance of flow, toughness, stiffness and heat resistance. It has excellent deep draw characteristics and is appropriate for extrusion applications where stiffness and toughness combined with high contact clarity and trim-ability are important. STYRON™ 487 can also be used in injection molding situations. Main Characteristics Heat resistance Toughness Stiffness Complies with U.S. FDA 21 CFR 177.1640 Applications Packaging/Disposables Appliances Housewares Extrusion Thermoforming Injection Molding Information provided by DowAmericas Styrenics was formed in 2008 as a joint venture between Dow Chemical and Chevron Phillips Chemical Company. Styron was a Dow trade name before the JV formation.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Americas-Styrenics-STYRON-487-High-Impact-Polystyrene-Resin.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.04 g/cc	1.04 g/cc	ASTM D792
Linear Mold Shrinkage	0.0030 - 0.0070 cm/cm	0.0030 - 0.0070 in/in	ASTM D955
Melt Flow	3.2 g/10 min @Load 5.00 kg, Temperature 200 °C	3.2 g/10 min @Load 11.0 lb, Temperature 392 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	97	97	ASTM D785
Tensile Strength, Ultimate	25.5 MPa	3700 psi	0.5 x 0.125 in. specimen; 0.2 in/min; ASTM D638
Tensile Strength, Yield	25.9 MPa	3750 psi	0.5 x 0.125 in. specimen; 0.2 in/min; ASTM D638
Elongation at Break	70 %	70 %	0.5 x 0.125 in. specimen; 0.2 in/min; ASTM D638
Tensile Modulus	1.96 GPa	284 ksi	0.5 x 0.125 in. specimen; 0.2 in/min; ASTM D638
Flexural Strength	46.9 MPa	6800 psi	0.05 in/min; 3-point; ASTM D790
Flexural Modulus	2.28 GPa	331 ksi	0.05 in/min; 3-point; ASTM D790
Izod Impact, Notched	0.854 J/cm @Thickness 3.17 mm, Temperature -18.0 °C	1.60 ft-lb/in @Thickness 0.125 in, Temperature -0.400 °F	0.5 x 0.125 in.; ASTM D256
	1.76 J/cm @Thickness 3.17 mm, Temperature 23.0 °C	3.30 ft-lb/in @Thickness 0.125 in, Temperature 73.4 °F	0.5 x 0.125 in.; ASTM D256

Mechanical Properties Gardner Impact	Metric 78.2 J	English 20.8 ft-lb	Comments ASTM D3029
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	88.9 °C	192 °F	unannealed; injection molded; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	75.6 °C	168 °F	unannealed; injection molded; ASTM D648
Vicat Softening Point	105 °C	221 °F	120°C/hr, 1 kg; ASTM D1525-B
Flammability, UL94	HB	HB	0.06 in. thickness

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