

Americas Styrenics Styron® 484C High Impact Polystyrene (discontinued **)

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

Material Notes:

STYRON® 484C high impact polystyrene resin, is typically used in refrigeration applications, appliances, containers, lids, furniture and profiles. It offers excellent low temperature toughness, excellent flexural characteristics, good heat resistance, and high elongation. When used unmodified for the manufacture of food contact articles STYRON 484C complies with the US Food, Drug and Cosmetic Act and Food Additive Regulation 21 CFR 177.1640. The regulation should be consulted for complete details. Data provided by Dow Chemical. Americas 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-484C-High-Impact-Polystyrene-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.04 g/cc	0.0376 lb/in ³	ASTM Data
Linear Mold Shrinkage	0.0050 cm/cm	0.0050 in/in	
Melt Flow	3.0 g/10 min @Load 5.00 kg, Temperature 200 °C	3.0 g/10 min @Load 11.0 lb, Temperature 392 °F	ASTM Data

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	100	100	
Tensile Strength, Ultimate	22.0 MPa	3190 psi	ASTM Data
Tensile Strength, Yield	20.0 MPa	2900 psi	ASTM Data
Elongation at Break	60 %	60 %	ASTM Data
Elongation at Yield	1.3 %	1.3 %	ISO Data
Tensile Modulus	1.86 GPa	270 ksi	ASTM Data
Izod Impact, Notched	1.28 J/cm	2.40 ft-lb/in	ASTM Data
Charpy Impact Unnotched	10.0 J/cm ²	47.6 ft-lb/in ²	ISO Data, Low Temp
	12.7 J/cm ²	60.4 ft-lb/in ²	ISO Data
Charpy Impact, Notched	0.600 J/cm ²	2.86 ft-lb/in ²	ISO Data, Low Temp
	1.20 J/cm ²	5.71 ft-lb/in ²	ISO Data

Thermal Properties	Metric	English	Comments
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Thermal Properties <small>CTE, linear, Parallel to Flow</small>	90.0 µm/m-°C Metric	50.0 µm/in-°F English	Comments <small>ASTM Data</small>
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Deflection Temperature at 0.46 MPa (66 psi)	87.0 °C	189 °F	Unannealed; ASTM Data
Deflection Temperature at 1.8 MPa (264 psi)	74.0 °C	165 °F	Unannealed; ASTM Data
Vicat Softening Point	101 °C	214 °F	
Flammability, UL94	HB	HB	
	@Thickness 3.10 mm	@Thickness 0.122 in	

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