

Americas Styrenics Styron® 678C Polystyrene (discontinued **)

Category : Polymer , Thermoplastic , Polystyrene (PS)

Material Notes:

STYRON® 678C general purpose polystyrene resin is a high flow, medium strength resin with good scuff resistance. It is typically used in thin-wall or consumer electronic applications. When used unmodified for the manufacture of food contact articles STYRON 678C complies with the US Food, Drug and Cosmetic Act and Food Additive Regulations 21 CFR 177.1640. The regulations 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-678C-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	10 g/10 min @Load 5.00 kg, Temperature 200 °C	10 g/10 min @Load 11.0 lb, Temperature 392 °F	ASTM Data

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	47.6 MPa	6900 psi	ASTM Data
Tensile Strength, Yield	47.6 MPa	6900 psi	ASTM Data
Elongation at Break	1.2 %	1.2 %	ASTM Data
Tensile Modulus	3.13 GPa	454 ksi	ASTM Data
Charpy Impact Unnotched	1.00 J/cm ²	4.76 ft-lb/in ²	ISO Data
	1.00 J/cm ²	4.76 ft-lb/in ²	ISO Data, Low Temp
Charpy Impact, Notched	0.100 J/cm ²	0.476 ft-lb/in ²	ISO Data, Low Temp
	0.200 J/cm ²	0.952 ft-lb/in ²	ISO Data

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	90.0 µm/m-°C @Temperature 20.0 °C	50.0 µin/in-°F @Temperature 68.0 °F	ASTM data
Deflection Temperature at 0.46 MPa (66 psi)	81.1 °C	178 °F	Unannealed; ASTM Data
Deflection Temperature at 1.8 MPa	72.8 °C	163 °F	

(264 psi) Thermal Properties	Metric	English	Unannealed; ASTM Data Comments
Vicat Softening Point	93.3 °C	200 °F	
Flammability, UL94	HB @Thickness 3.20 mm	HB @Thickness 0.126 in	

Optical Properties	Metric	English	Comments
Haze	1.0 %	1.0 %	
Transmission, Visible	90 %	90 %	

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