

Americas Styrenics STYRON™ 668 General Purpose Polystyrene Resin

Category : Polymer , Thermoplastic , Polystyrene (PS) , Polystyrene, Molded, Unreinforced

Material Notes:

STYRON™ 668 is a general purpose polystyrene with medium flow and a balance of heat resistance and stiffness characteristics that make it suitable for applications such as CD jewel boxes. STYRON™ 668 complies with U.S. FDA 21 CFR 177.1640. 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-668-General-Purpose-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	5.3 g/10 min @Load 5.00 kg, Temperature 200 °C	5.3 g/10 min @Load 11.0 lb, Temperature 392 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	51.0 MPa	7400 psi	0.5 x 0.125 in. specimen; 0.2 in/min; ASTM D638
Tensile Strength, Yield	51.0 MPa	7400 psi	0.5 x 0.125 in. specimen; 0.2 in/min; ASTM D638
Elongation at Break	2.0 %	2.0 %	0.5 x 0.125 in. specimen; 0.2 in/min; ASTM D638
Tensile Modulus	3.134 GPa	454.5 ksi	0.5 x 0.125 in. specimen; 0.2 in/min; ASTM D638
Flexural Strength	102 MPa	14800 psi	0.05 in/min; 3-point; ASTM D790
Flexural Modulus	3.54 GPa	513 ksi	0.05 in/min; 3-point; ASTM D790
Izod Impact, Notched	0.214 J/cm	0.400 ft-lb/in	0.5 x 0.125 in.; ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	90.0 µm/m-°C @Temperature 20.0 °C	50.0 µin/in-°F @Temperature 68.0 °F	ASTM D696
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)	77.2 °C	171 °F	unannealed; injection molded; ASTM D648

Vicat Softening Point Thermal Properties	105 °C Metric	221 °F English	120°C/hr, 1 kg; ASTM D1525-B Comments
Flammability, UL94	HB	HB	0.06 in. thickness

Optical Properties	Metric	English	Comments
Refractive Index	1.59	1.59	ASTM D542
Haze	1.0 %	1.0 %	ASTM D1003
Transmission, Visible	90 %	90 %	ASTM D1003

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