

Americas Styrenics STYRON™ A-TECH™ 1220 High-Impact Polystyrene Resin (discontinued **)

Category : Polymer , Thermoplastic , Polystyrene (PS)

Material Notes:

STYRON™ A-TECH™ 1220 advanced technology polystyrene resin is a high impact, high modulus resin for extrusion thermoforming applications. The improved durability of this resin allows potential down-gauging and scrap reduction, as well as overall improvements in process efficiency. Main Characteristics Easy Processing Outstanding thermoform-ability High Modulus/Toughness Balanced Good Trim-ability Complies with U.S. FDA 21 CFR 177.1640 Applications Packaging/Disposables Cold Drink Cups Plates/Bowls Portion Containers 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-A-TECH-1220-High-Impact-Polystyrene-Resin-nbspdiscontinued.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	3.9 g/10 min @Load 5.00 kg, Temperature 200 °C	3.9 g/10 min @Load 11.0 lb, Temperature 392 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	28.1 MPa	4080 psi	0.5 x 0.125 in. specimen; 0.2 in/min; ASTM D638
Tensile Strength, Yield	27.6 MPa	4000 psi	0.5 x 0.125 in. specimen; 0.2 in/min; ASTM D638
Elongation at Break	59 %	59 %	0.5 x 0.125 in. specimen; 0.2 in/min; ASTM D638
Tensile Modulus	2.03 GPa	295 ksi	0.5 x 0.125 in. specimen; 0.2 in/min; ASTM D638
Flexural Strength	51.7 MPa	7500 psi	0.05 in/min; 3-point; ASTM D790
Flexural Modulus	2.41 GPa	350 ksi	0.05 in/min; 3-point; ASTM D790
Izod Impact, Notched	1.76 J/cm	3.30 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

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (67 psi)	89.4 °C	163 °F	unannealed; injection molded; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	76.7 °C	170 °F	unannealed; injection molded; ASTM D648
Vicat Softening Point	104 °C	220 °F	120°C/hr, 1 kg; ASTM D1525-B

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