

Americas Styrenics EA3400 High Heat Crystal Polystyrene

Category : Polymer , Thermoplastic , Polystyrene (PS) , Polystyrene, Heat Resistant Grade

Material Notes:

Product Characteristics Less than 300 parts per million residual volatiles with minimal taste and odor transfer Excellent clarity and color Good toughness Food Contact Compliant Typical Applications Cap layers in co-extrusion applications Blends with SB copolymer Injection molded medical devices Thick wall injection molded glasses Information provided by Americas Styrenics LLC.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Americas-Styrenics-EA3400-High-Heat-Crystal-Polystyrene.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.04 g/cc	1.04 g/cc	ASTM D792
Linear Mold Shrinkage	0.0040 - 0.0080 cm/cm	0.0040 - 0.0080 in/in	ASTM D955
Melt Flow	9.0 g/10 min @Load 5.00 kg, Temperature 200 °C	9.0 g/10 min @Load 11.0 lb, Temperature 392 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell L	108	108	ASTM D785
Tensile Strength at Break	46.2 MPa	6700 psi	ASTM D638
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Elongation at Break	3.0 %	3.0 %	ASTM D638
Tensile Modulus	3.21 GPa	465 ksi	ASTM D638
Flexural Strength	58.6 MPa	8500 psi	ASTM D790
Flexural Modulus	3.24 GPa	470 ksi	ASTM D790
Izod Impact, Notched	0.214 J/cm	0.400 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	90.0 µm/m-°C	50.0 µin/in-°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	88.9 °C	192 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	82.2 °C	180 °F	ASTM D648
Vicat Softening Point	98.9 °C	210 °F	ASTM D1525

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