

Americas Styrenics STYRON® 693 High Heat Crystal Polystyrene

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

Material Notes:

Product Characteristics High heat resistance High tensile strength High stiffness Food Contact Compliant UL Classification 94 HB Typical Applications Packaging/Foam disposables Consumer electronics Information provided by Americas Styrenics LLC.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Americas-Styrenics-STYRON-693-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	3.5 g/10 min @Load 5.00 kg, Temperature 200 °C	3.5 g/10 min @Load 11.0 lb, Temperature 392 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell L	109	109	ASTM D785
Tensile Strength at Break	46.9 MPa	6800 psi	ASTM D638
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Elongation at Break	3.0 %	3.0 %	ASTM D638
Tensile Modulus	3.10 GPa	450 ksi	ASTM D638
Flexural Strength	59.3 MPa	8600 psi	ASTM D790
Flexural Modulus	3.34 GPa	485 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)	87.2 °C	189 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	80.6 °C	177 °F	ASTM D648
Vicat Softening Point	97.8 °C	208 °F	ASTM D1525

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