

Americas Styrenics STYRON® 649D High Heat Crystal Polystyrene

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

Material Notes:

Product Characteristics Excellent moldability Excellent gloss in coextrusion Excellent clarity Food Contact Compliant Typical

Applications Disposable cutlery Housewares Compact disc and DVD jewel boxes Desk organizers Information provided by Americas Styrenics LLC.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Americas-Styrenics-STYRON-649D-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	18 g/10 min @Load 5.00 kg, Temperature 200 °C	18 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	35.2 MPa	5100 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	51.0 MPa	7400 psi	ASTM D790
Flexural Modulus	3.28 GPa	475 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)	84.4 °C	184 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	77.8 °C	172 °F	ASTM D648
Vicat Softening Point	95.0 °C	203 °F	ASTM D1525

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