

Americas Styrenics STYRON® 685DL High Heat Crystal Polystyrene

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

Material Notes:

Product Characteristics High heat resistance High tensile strength Blue tint Food Contact Compliant Typical

Applications Foam OPS Medical Information provided by Americas Styrenics LLC.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Americas-Styrenics-STYRON-685DL-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	1.5 g/10 min @Load 5.00 kg, Temperature 200 °C	1.5 g/10 min @Load 11.0 lb, Temperature 392 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell L	107	107	ASTM D785
Tensile Strength at Break	51.7 MPa	7500 psi	ASTM D638
Tensile Strength	52.4 MPa	7600 psi	ASTM D638
Elongation at Break	3.0 %	3.0 %	ASTM D638
Tensile Modulus	3.17 GPa	460 ksi	ASTM D638
Flexural Strength	89.6 MPa	13000 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)	98.3 °C	209 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	88.9 °C	192 °F	ASTM D648
Vicat Softening Point	108 °C	227 °F	ASTM D1525

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