

Chevron Phillips EA3350 Crystal Polystyrene (discontinued **)

Category : Polymer , Thermoplastic , Polystyrene (PS)

Material Notes:

High heat crystal polystyrene. Applications: Medical containers Blends with clear SB-copolymers Clam-shell containers Bi-axially oriented sheet Features: High molecular weight homopolymer High Vicat softening temperature Excellent clarity with added blue tint Information provided by Chevron Phillips The Chevron Phillips polystyrene product line was transferred to Americas Styrenics in 2008.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Chevron-Phillips-EA3350-Crystal-Polystyrene-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.03 g/cc	1.03 g/cc	ASTM D-792
Bulk Density	0.609 - 0.673 g/cc	0.0220 - 0.0243 lb/in ³	
Linear Mold Shrinkage	0.0040 - 0.0080 cm/cm	0.0040 - 0.0080 in/in	24 hours; ASTM D-955
Melt Flow	1.8 g/10 min @Load 5.00 kg, Temperature 200 °C	1.8 g/10 min @Load 11.0 lb, Temperature 392 °F	ASTM D-1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	55.0 MPa	7980 psi	0.2 in/min; 0.050" thickness; ASTM D-638
Elongation at Yield	4.5 %	4.5 %	0.2 in/min; 0.050" thickness; ASTM D-638
Tensile Modulus	3.38 GPa	490 ksi	0.2 in/min; 0.050" thickness; ASTM D-638
Flexural Strength	83.0 MPa	12000 psi	0.1 in/min; 0.250" thickness; ASTM D-790B
Flexural Modulus	3.17 GPa	460 ksi	0.1 in/min; 0.250" thickness; ASTM D-790B
Izod Impact, Notched	0.190 J/cm @Thickness 3.17 mm, Temperature 22.8 °C	0.356 ft-lb/in @Thickness 0.125 in, Temperature 73.0 °F	ASTM D-256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	92.0 °C @Thickness 6.35 mm	198 °F @Thickness 0.250 in	ASTM D-648
Vicat Softening Point	109 °C @Thickness 6.35 mm	228 °F @Thickness 0.250 in	Rate B; ASTM D-1525

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