

Chevron Phillips MB3150 Crystal Polystyrene

Category : Polymer , Thermoplastic , Polystyrene (PS) , Polystyrene, Transparent Grade

Material Notes:

High heat crystal polystyrene. Applications: Compact disc jewel boxes Consumer containers, vials, jars, etc. Desk organizers Audio cassettes Features: Fast cycling due to high heat distortion High Vicat softening temperature Excellent clarity with a slight blue hint Good toughness 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-MB3150-Crystal-Polystyrene.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	3.0 g/10 min @Load 5.00 kg, Temperature 200 °C	3.0 g/10 min @Load 11.0 lb, Temperature 392 °F	ASTM D-1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	54.0 MPa	7830 psi	0.2 in/min; 0.125" thickness; ASTM D-638
Elongation at Yield	4.5 %	4.5 %	0.2 in/min; 0.125" thickness; ASTM D-638
Tensile Modulus	3.17 GPa	460 ksi	0.2 in/min; 0.125" thickness; ASTM D-638
Flexural Strength	83.0 MPa	12000 psi	0.1 in/min; 0.250" thickness; ASTM D-790B
Flexural Modulus	3.10 GPa	450 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)	91.0 °C @Thickness 6.35 mm	196 °F @Thickness 0.250 in	ASTM D-648
Vicat Softening Point	108 °C	226 °F	Rate B; ASTM D-1525

Thermal Properties	@Thickness 6.35 mm Metric	@Thickness 0.250 in English	Comments
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