

## Chevron Phillips MC3600 Crystal Polystyrene (discontinued \*\*)

Category : Polymer , Thermoplastic , Polystyrene (PS)

### Material Notes:

General purpose crystal polystyrene. Applications: Housewares Consumer containers, vials, jars, etc. Disposable cutlery Injection molded drink cups Features: Easy filling of thin-walled parts Exceptional mold release Improved cycle times in hard to fill parts 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-MC3600-Crystal-Polystyrene-nbspdiscontinued-.php](http://www.lookpolymers.com/polymer_Chevron-Phillips-MC3600-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 <sup>3</sup>	
Linear Mold Shrinkage	0.0040 - 0.0080 cm/cm	0.0040 - 0.0080 in/in	24 hours; ASTM D-955
Melt Flow	13 g/10 min @Load 5.00 kg, Temperature 200 °C	13 g/10 min @Load 11.0 lb, Temperature 392 °F	ASTM D-1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	47.0 MPa	6820 psi	0.2 in/min; 0.125" thickness; ASTM D-638
Elongation at Yield	3.0 %	3.0 %	0.2 in/min; 0.125" thickness; ASTM D-638
Tensile Modulus	3.10 GPa	450 ksi	0.2 in/min; 0.125" thickness; ASTM D-638
Flexural Strength	62.0 MPa	8990 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)	82.0 °C @Thickness 6.35 mm	180 °F @Thickness 0.250 in	ASTM D-648
Vicat Softening Point	98.0 °C	208 °F	Rate B; ASTM D-1525

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