

Chevron Phillips MC3700 High Flow Crystal Polystyrene

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

Material Notes:

Description Chevron polystyrene resin MC3700 crystal is a free-flowing, crystal clear polystyrene injection molding compound, designed specifically for thin- and medium-walled or long-flow, difficult-to-fill parts of any size or complexity. MC 3700 combines greater processing latitude, exceptional mold release and the overall good molding characteristics required by such parts. MC3700 provides improved cycle times, better part stackability, reduced dusting and fewer part rejects. Processing energy requirements can also be reduced. Chevron MC 3700 complies with Food Additive Regulation 21CFR177.1640 for polystyrene and rubber modified polystyrene, which states that such materials may be safely used in contact with foods. Applications Chevron MC3700 is recommended for such applications as housewares, disposable cups and cutlery. Information provided by Chevron Phillips Chemical Company. 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-MC3700-High-Flow-Crystal-Polystyrene.php

Physical Properties	Metric	English	Comments
Density	1.04 g/cc	0.0376 lb/in ³	ASTM D792
Melt Flow	18 g/10 min	18 g/10 min	Condition G; ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	45.5 MPa	6600 psi	ASTM D638
Tensile Strength, Yield	45.5 MPa	6600 psi	ASTM D638
Elongation at Break	3.0 %	3.0 %	ASTM D638
Tensile Modulus	3.10 GPa	450 ksi	ASTM D638
Flexural Strength	57.9 MPa	8400 psi	ASTM D790B
Flexural Modulus	3.10 GPa	450 ksi	ASTM D790B
Izod Impact, Notched	0.133 J/cm	0.250 ft-lb/in	1/4 in.; ASTM D256
	0.187 J/cm	0.350 ft-lb/in	1/8 in.; ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	79.4 °C	175 °F	ASTM D648
Vicat Softening Point	96.1 °C	205 °F	ASTM D1525

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