

## Americas Styrenics MC3700 High Heat Crystal Polystyrene

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

### Material Notes:

Product Characteristics Easy filling of thin-walled parts Exceptional mold release Improved cycle times in hard to fill parts Food Contact Compliant UL Classification 94HBUSP Class VI Typical Applications Color concentrate carrier Consumer containers, vials, jars, etc. Disposable cutlery Injection molded drink cups Information provided by Americas Styrenics LLC.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Americas-Styrenics-MC3700-High-Heat-Crystal-Polystyrene.php](http://www.lookpolymers.com/polymer_Americas-Styrenics-MC3700-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	18 g/10 min @Load 5.00 kg, Temperature 200 °C	18 g/10 min @Load 11.0 lb, Temperature 392 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell L	109	109	ASTM D785
Tensile Strength at Break	41.4 MPa	6000 psi	ASTM D638
Tensile Strength	41.4 MPa	6000 psi	ASTM D638
Elongation at Break	3.0 %	3.0 %	ASTM D638
Tensile Modulus	3.17 GPa	460 ksi	ASTM D638
Flexural Strength	51.0 MPa	7400 psi	ASTM D790
Flexural Modulus	3.31 GPa	480 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)	82.8 °C	181 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	77.2 °C	171 °F	ASTM D648
Vicat Softening Point	93.9 °C	201 °F	ASTM D1525

## **Contact Songhan Plastic Technology Co.,Ltd.**

**Website : [www.lookpolymers.com](http://www.lookpolymers.com)**

**Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)**

**Tel : +86 021-51131842**

**Mobile : +86 13061808058**

**Skype : lookpolymers**

**Address : United North Road 215,Fengxian District, Shanghai City,China**