

## Chevron Phillips EC6600 HIPS - High Impact Polystyrene

Category : Polymer , Thermoplastic , Polystyrene (PS) , Polystyrene, Impact Modified

### Material Notes:

Rubber modified high impact polystyrene. Applications: Lithographic sheet Printed toys and games Point of purchase displays Silk screen printing Features: Excellent printability Matte surface finish High heat distortion temperature Good low temperature 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-EC6600-HIPS-High-Impact-Polystyrene.php](http://www.lookpolymers.com/polymer_Chevron-Phillips-EC6600-HIPS-High-Impact-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 <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	2.0 g/10 min @Load 5.00 kg, Temperature 200 °C	2.0 g/10 min @Load 11.0 lb, Temperature 392 °F	ASTM D-1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	22.0 MPa	3190 psi	2.0 in/min; 0.050" thickness; ASTM D-638
Elongation at Yield	60 %	60 %	2.0 in/min; 0.050" thickness; ASTM D-638
Tensile Modulus	1.72 GPa	249 ksi	2.0 in/min; 0.050" thickness; ASTM D-638
Flexural Strength	38.0 MPa	5510 psi	0.1 in/min; 0.250" thickness; ASTM D-790B
Flexural Modulus	1.62 GPa	235 ksi	0.1 in/min; 0.250" thickness; ASTM D-790B
Izod Impact, Notched	1.17 J/cm @Thickness 3.17 mm, Temperature 22.8 °C	2.19 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)	87.0 °C @Thickness 6.35 mm	189 °F @Thickness 0.250 in	ASTM D-648
Vicat Softening Point	104 °C @Thickness 6.35 mm	219 °F @Thickness 0.250 in	Rate B; ASTM D-1525

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