

Chevron Phillips MD6800 HIPS - High Impact Polystyrene (discontinued **)

Categories: [Polymer](#); [Thermoplastic](#); [Polystyrene \(PS\)](#)

Material Notes: Rubber modified high impact polystyrene.

Applications:

- Displays and retail product shelving
- Durable household applications
- Thin to medium thickness parts that require a combination of high flow and good toughness

Features:

- Excellent practical toughness
- Medium/low gloss
- Balance of stiffness and toughness
- UL classification 94HB

Information provided by Chevron Phillips

The Chevron Phillips polystyrene product line was transferred to Americas Styrenics in 2008.

Vendors: No vendors are listed for this material. Please [click here](#) if you are a supplier and would like information on how to add your listing to this material.

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	8.0 g/10 min @Load 5.00 kg, Temperature 200 °C	8.0 g/10 min @Load 11.0 lb, Temperature 392 °F	ASTM D-1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	23.0 MPa	3340 psi	2.0 in/min; 0.125" thickness; ASTM D-638
Elongation at Yield	45 %	45 %	2.0 in/min; 0.125" thickness; ASTM D-638
Tensile Modulus	2.07 GPa	300 ksi	2.0 in/min; 0.125" thickness; ASTM D-638
Flexural Strength	41.0 MPa	5950 psi	0.1 in/min; 0.250" thickness; ASTM D-790B
Flexural Modulus	1.95 GPa	283 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)	78.0 °C @Thickness 6.35 mm	172 °F @Thickness 0.250 in	ASTM D-648
Vicat Softening Point	94.0 °C @Thickness 6.35 mm	201 °F @Thickness 0.250 in	Rate B; ASTM D-1525
Flammability, UL94	HB	HB	

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Materials flagged as discontinued (🚫) are no longer part of the manufacturer's standard product line according to our latest information. These materials may be available by special order, in distribution inventory, or reinstated as an active product. Data sheets from materials that are no longer available remain in MatWeb to assist users in finding replacement materials.

Users of our Advanced Search (registration required) may exclude discontinued materials from search results.

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