

Chevron Phillips EC6755 HIPS - High Impact Polystyrene (discontinued **)

Category : Polymer , Thermoplastic , Polystyrene (PS)

Material Notes:

Rubber modified high impact polystyrene. Applications: Containers and lids Packaging for foods such as yogurt, sour cream, delicatessen salads and gravy Cold temperature packaging Portion dairy containers Features: Superior ESCR to fatty foods Good practical toughness Deep draw thermoforming capable Low temperature impact 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-EC6755-HIPS-High-Impact-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 ³	
Linear Mold Shrinkage	0.0040 - 0.0080 cm/cm	0.0040 - 0.0080 in/in	24 hours; ASTM D-955
Melt Flow	3.2 g/10 min @Load 5.00 kg, Temperature 200 °C	3.2 g/10 min @Load 11.0 lb, Temperature 392 °F	ASTM D-1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	18.0 MPa	2610 psi	2.0 in/min; 0.050" thickness; ASTM D-638
Elongation at Yield	65 %	65 %	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	31.0 MPa	4500 psi	0.1 in/min; 0.250" thickness; ASTM D-790B
Flexural Modulus	1.55 GPa	225 ksi	0.1 in/min; 0.250" thickness; ASTM D-790B
Izod Impact, Notched	1.44 J/cm @Thickness 3.17 mm, Temperature 22.8 °C	2.70 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)	86.0 °C @Thickness 6.35 mm	187 °F @Thickness 0.250 in	ASTM D-648
Vicat Softening Point	102 °C	216 °F	Rate B; ASTM D-1525

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