

PlastxWorld DAICEL STYROL® GH10 HIPS

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

Material Notes:

High heat resistance and flame retarded HIPS. These are typical values and are not intended for specification purposes. UL approved file No. is E47773. Information provided by PlastxWorld Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_PlastxWorld-DAICEL-STYROL-GH10-HIPS.php

Physical Properties	Metric	English	Comments
Density	1.15 g/cc	0.0415 lb/in ³	ASTM D792
Water Absorption	0.10 %	0.10 %	24 hr; ASTM D570
Linear Mold Shrinkage	0.0030 - 0.0060 cm/cm	0.0030 - 0.0060 in/in	ASTM D955
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 D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell L	84	84	ASTM D785
Tensile Strength at Break	21.4 MPa	3100 psi	ASTM D638
Elongation at Break	50 %	50 %	ASTM D638
Flexural Yield Strength	34.5 MPa	5000 psi	ASTM D790
Flexural Modulus	2.05 GPa	298 ksi	ASTM D790
Izod Impact, Notched	0.961 J/cm @Thickness 3.17 mm	1.80 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	81.0 °C	178 °F	0.25 inch; ASTM D648
Vicat Softening Point	97.0 °C	207 °F	ASTM D1525
Flammability, UL94	V-0 @Thickness 1.60 mm	V-0 @Thickness 0.0630 in	

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