

PlastxWorld DAICEL STYROL® GW50 HIPS

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

Material Notes:

UV stable flame retarded HIPSThese 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-GW50-HIPS.php

Physical Properties	Metric	English	Comments
Density	1.16 g/cc	0.0419 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	5.0 g/10 min @Load 5.00 kg, Temperature 200 °C	5.0 g/10 min @Load 11.0 lb, Temperature 392 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	24.1 MPa	3500 psi	ASTM D638
Elongation at Break	35 %	35 %	ASTM D638
Flexural Yield Strength	36.5 MPa	5300 psi	ASTM D790
Flexural Modulus	1.80 GPa	261 ksi	ASTM D790
Izod Impact, Notched	0.694 J/cm @Thickness 3.17 mm	1.30 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	80.0 °C	176 °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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