

LNP Thermocomp® SPS-F-1006 HS Syndiotactic Polystyrene, Glass Fiber Reinforcement (discontinued **)

Category : Polymer , Thermoplastic , Polystyrene (PS) , Syndiotactic Polystyrene (SPS) , Syndiotactic Polystyrene (SPS) with Glass or Carbon Fiber

Material Notes:

Features: Heat StabilizedForms: PelletsProcessing Method: Injection MoldingInformation provided by LNP, a GE Plastics Company.This data sheet is labeled Discontinued; however many LNP grades are still active under new names instituted after the SABIC purchase.

Order this product through the following link:

http://www.lookpolymers.com/polymer_LNP-Thermocomp-SPS-F-1006-HS-Syndiotactic-Polystyrene-Glass-Fiber-Reinforcement-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.26 g/cc	1.26 g/cc	Method A; ASTM D792
Linear Mold Shrinkage	0.0030 cm/cm	0.0030 in/in	ASTM D955
Linear Mold Shrinkage, Transverse	0.0080 cm/cm	0.0080 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	125 MPa	18100 psi	ASTM D638
Tensile Strength, Yield	125 MPa	18100 psi	ASTM D638
Elongation at Break	1.4 %	1.4 %	ASTM D638
Elongation at Yield	1.4 %	1.4 %	ASTM D638
Tensile Modulus	11.5 GPa	1670 ksi	ASTM D638
Flexural Strength	200 MPa	29000 psi	ASTM D790
Flexural Modulus	11.0 GPa	1600 ksi	ASTM D790
Izod Impact, Notched	0.907 J/cm @Thickness 3.18 mm	1.70 ft-lb/in @Thickness 0.125 in	ASTM D256
Izod Impact, Unnotched	5.93 J/cm @Thickness 3.18 mm	11.1 ft-lb/in @Thickness 0.125 in	ASTM D256
Izod Impact, Notched (ISO)	8.00 kJ/m ²	3.81 ft-lb/in ²	ISO 180
Izod Impact, Unnotched (ISO)	35.0 kJ/m ²	16.7 ft-lb/in ²	ISO 180
Falling Dart Impact	9.61 J	7.09 ft-lb	ASTM D3763
Impact Test	2.56 J	1.89 ft-lb	Multi-Axial Instrumented Impact Energy; ISO 6603-2

Processing Properties	Metric	English	Comments
Melt Temperature	304 - 321 °C	579 - 610 °F	
Mold Temperature	82.2 - 149 °C	180 - 300 °F	
Drying Temperature	82.2 °C	180 °F	
Dry Time	4 hour	4 hour	
Back Pressure	0.172 - 0.345 MPa	24.9 - 50.0 psi	

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