

Suzhou Hipro Polymers Hiprolon® 400 MC HLS G30 Nylon, 30% glass fiber filled

Category : Polymer , Renewable/Recycled Polymer , Thermoplastic , Nylon

Material Notes:

Hiprolon® 400 MC HLS G30 is a specialty long chain polyamide compound reinforced with 30% chopped glass fiber for injection molding. It contains some bio-renewable resources Features: high dimension stability, impact resistance, chemical resistance, superior cold impact resistance. Widely used for auto parts, electrical/machinery parts, thin-wall injection molding et al. Information provided by Suzhou Hipro Polymers Co. Ltd

Order this product through the following link:

http://www.lookpolymers.com/polymer_Suzhou-Hipro-Polymers-Hiprolon-400-MC-HLS-G30-Nylon-30-glass-fiber-filled.php

Physical Properties	Metric	English	Comments
Density	1.26 g/cc	0.0455 lb/in ³	ISO 1183
Water Absorption	0.50 %	0.50 %	ISO 62
Linear Mold Shrinkage	0.0015 cm/cm	0.0015 in/in	normal; ISO 294-4,2577
Linear Mold Shrinkage, Flow	0.0065 cm/cm	0.0065 in/in	ISO 294-4,2577

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	120 MPa	17400 psi	ISO527-2/1A
Elongation at Break	5.0 %	5.0 %	ISO 527-2/1A
Tensile Modulus	6.50 GPa	943 ksi	ISO 527-1/-2
Charpy Impact Unnotched	8.40 J/cm ²	40.0 ft-lb/in ²	ISO 179/1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	8.60 J/cm ²	40.9 ft-lb/in ²	ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	1.20 J/cm ²	5.71 ft-lb/in ²	ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	2.30 J/cm ²	10.9 ft-lb/in ²	ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
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Melting Point Thermal Properties	189 Â°C Metric	372 Â°F English	ISO 11357 Comments
Deflection Temperature at 0.46 MPa (66 psi)	180 Â°C	356 Â°F	ISO 75-1/2
Deflection Temperature at 1.8 MPa (264 psi)	175 Â°C	347 Â°F	ISO 75-1/2
Vicat Softening Point	175 Â°C	347 Â°F	ISO 306
Flammability, UL94	HB	HB	ISO1210
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	HB	HB	ISO1210
	@Thickness 3.20 mm	@Thickness 0.126 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+17 ohm-cm	1.00e+17 ohm-cm	ISO 60695
Comparative Tracking Index	>= 600 V	>= 600 V	IEC 60112

Processing Properties	Metric	English	Comments
Melt Temperature	230 - 280 Â°C	446 - 536 Â°F	
Mold Temperature	60.0 - 100 Â°C	140 - 212 Â°F	
Drying Temperature	80.0 - 90.0 Â°C	176 - 194 Â°F	
Dry Time	4 hour	4 hour	
Injection Pressure	70.0 - 130 MPa	10200 - 18900 psi	

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