

Suzhou Hipro Polymers Hiprolon® 200 MC HLS G30 Nylon 1010, 30% glass fiber filled

Category : Polymer , Thermoplastic , Nylon

Material Notes:

Hiprolon® 200 MC HLS G30 is a polyamide 10.10 compound reinforced with 30% chopped glass fiber for injection molding; features high dimension stability, chemical resistance, impact resistance, low friction, high flow ability; widely used for auto parts, thin wall housing, machinery & sports equipment 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-200-MC-HLS-G30-Nylon-1010-30-glass-fiber-filled.php

Physical Properties	Metric	English	Comments
Density	1.27 g/cc	0.0459 lb/in ³	ISO 1183
Water Absorption	0.60 %	0.60 %	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	136 MPa	19700 psi	ISO527-2/1A
Elongation at Break	5.0 %	5.0 %	ISO 527-2/1A
Tensile Modulus	7.40 GPa	1070 ksi	ISO 527-1/-2
Charpy Impact Unnotched	9.50 J/cm ²	45.2 ft-lb/in ²	ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact Unnotched	9.50 J/cm ²	45.2 ft-lb/in ²	ISO 179/1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	1.10 J/cm ²	5.23 ft-lb/in ²	ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	1.90 J/cm ²	9.04 ft-lb/in ²	ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Melting Point	202 °C	396 °F	ISO 11357

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (60 psi)			
Deflection Temperature at 1.8 MPa (264 psi)	185 Å°C	365 Å°F	ISO 75-1/2
Vicat Softening Point	190 Å°C	374 Å°F	ISO 306
Flammability, UL94	HB	HB	IEC60695
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	HB	HB	IEC60695
	@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	240 - 290 Å°C	464 - 554 Å°F	
Mold Temperature	60.0 - 110 Å°C	140 - 230 Å°F	
Drying Temperature	80.0 - 90.0 Å°C	176 - 194 Å°F	
Dry Time	4 hour	4 hour	
Injection Pressure	70.0 - 130 MPa	10200 - 18900 psi	

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