

Suzhou Hipro Polymers Hiprolon® 70 MC HLS G30 Nylon 610, 30% glass fiber filled

Category : Polymer , Renewable/Recycled Polymer , Thermoplastic , Nylon , Nylon 610 , Nylon 610, Glass Reinforced

Material Notes:

Hiprolon® 70 MC HLS G30 polyamide 6.10 compound reinforced with 30% chopped glass fiber for injection molding. Features: high heat resistance, dimension stability, impact resistance, good flow ability, and bio-renewable resource composition. Widely used for auto parts, electronics parts, thin-wall housing 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-70-MC-HLS-G30-Nylon-610-30-glass-fiber-filled.php

Physical Properties	Metric	English	Comments
Density	1.31 g/cc	0.0473 lb/in ³	ISO 1183
Water Absorption	0.80 %	0.80 %	ISO 62
Linear Mold Shrinkage	0.0050 cm/cm	0.0050 in/in	normal; ISO 294-4,2577
Linear Mold Shrinkage, Flow	0.010 cm/cm	0.010 in/in	ISO 294-4,2577

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	150 MPa	21800 psi	ISO 527-2/1A
Elongation at Break	5.0 %	5.0 %	ISO 527-2/1A
Tensile Modulus	8.30 GPa	1200 ksi	ISO 527-1/-2
Charpy Impact Unnotched	8.90 J/cm ²	42.4 ft-lb/in ²	ISO 179/1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	9.00 J/cm ²	42.8 ft-lb/in ²	ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	1.00 J/cm ²	4.76 ft-lb/in ²	ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	1.60 J/cm ²	7.61 ft-lb/in ²	ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Melting Point	222 °C	432 °F	ISO 11357

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)			
Deflection Temperature at 1.8 MPa (264 psi)	210 Â°C	410 Â°F	ISO 75-1/2
Vicat Softening Point	217 Â°C	423 Â°F	ISO 306
Flammability, UL94	HB	HB	IEC60695
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	HB	HB	
	@Thickness 3.20 mm	@Thickness 0.126 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+16 ohm-cm	1.00e+16 ohm-cm	ISO 60695
Comparative Tracking Index	>= 600 V	>= 600 V	IEC 60112

Processing Properties	Metric	English	Comments
Melt Temperature	260 - 300 Â°C	500 - 572 Â°F	
Mold Temperature	60.0 - 110 Â°C	140 - 230 Â°F	
Drying Temperature	80.0 Â°C	176 Â°F	
Dry Time	4 hour	4 hour	
Injection Pressure	70.0 - 130 MPa	10200 - 18900 psi	

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