

SABIC Innovative Plastics LNP THERMOCOMP RFZ349XC PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

LNP THERMOCOMP* RFZ349XC is a compound based on Nylon 66 resin containing 20% Glass Fiber, 15% Milled Glass. Added features of this material include: Flame Retardant.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-RFZ349XC-PA-66.php

Physical Properties	Metric	English	Comments
Density	1.66 g/cc	0.0600 lb/in ³	ISO 1183
Moisture Absorption	0.200 %	0.200 %	50% RH, 24 hrs; ASTM D570
	0.430 %	0.430 %	23°C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0039 cm/cm	0.0039 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.0040 cm/cm	0.0040 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0119 cm/cm	0.0119 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.012 cm/cm	0.012 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	85.0 MPa	12300 psi	ISO 527
	124 MPa	18000 psi	ASTM D638
Elongation at Break	2.3 %	2.3 %	ASTM D638
	3.2 %	3.2 %	ISO 527
Tensile Modulus	11.03 GPa	1600 ksi	50 mm/min; ASTM D638
	11.4 GPa	1650 ksi	1 mm/min; ISO 527
Flexural Strength	179 MPa	26000 psi	ASTM D790
	197 MPa	28600 psi	ISO 178
Flexural Modulus	7.17 GPa	1040 ksi	ASTM D790

Mechanical Properties	9.00 GPa Metric	1310 ksi English	ISO 178 Comments
Izod Impact, Notched	0.640 J/cm	1.20 ft-lb/in	ASTM D256
Izod Impact, Unnotched	5.87 J/cm	11.0 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	7.00 kJ/m ²	3.33 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	39.0 kJ/m ²	18.6 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	7.00 J	5.16 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	2.00 J	1.48 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	235 Â°C	455 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	237 Â°C @Thickness 3.20 mm	459 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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