

SABIC Innovative Plastics LNP THERMOCOMP RF004XXH PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

LNP THERMOCOMP® RF004XXH is a compound based on Nylon 66 resin containing 20% Glass Fiber. Added feature of this grade is: Healthcare.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-RF004XXH-PA-66.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.29 g/cc	1.29 g/cc	ASTM D792
Density	1.29 g/cc	0.0466 lb/in ³	ASTM D792
Moisture Absorption	0.440 %	0.440 %	23°C / 50% RH; ISO 62
	0.780 %	0.780 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.0040 - 0.0060 cm/cm @Time 86400 sec	0.0040 - 0.0060 in/in @Time 24.0 hour	ASTM D955
Linear Mold Shrinkage, Transverse	0.010 - 0.030 cm/cm @Time 86400 sec	0.010 - 0.030 in/in @Time 24.0 hour	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	148 MPa	21500 psi	5 mm/min; ISO 527
	149 MPa	21600 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	2.8 %	2.8 %	Type I, 5 mm/min; ASTM D638
	2.8 %	2.8 %	5 mm/min; ISO 527
Tensile Modulus	7.64 GPa	1110 ksi	1 mm/min; ISO 527
	7.98 GPa	1160 ksi	5 mm/min; ASTM D638
Flexural Strength	217 MPa	31500 psi	ISO 178
	233 MPa	33800 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	6.40 GPa	928 ksi	2 mm/min; ISO 178
	7.13 GPa	1030 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.740 J/cm	1.39 ft-lb/in	ASTM D256

Izod Impact, Unnotched Mechanical Properties	5.93 J/cm Metric	11.1 ft-lb/in English	ASTM D4812 Comments
Izod Impact, Notched (ISO)	6.00 kJ/m ²	2.86 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 @Temperature 23.0 Â°C	5.16 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Impact Test	2.00 J	1.48 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	48.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	26.7 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	84.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	46.7 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	258 Â°C	496 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	260 Â°C @Thickness 3.20 mm	500 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	241 Â°C	466 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	255 Â°C @Thickness 3.20 mm	491 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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