

SABIC Innovative Plastics LNP THERMOCOMP RC006XXH PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

LNP* THERMOCOMP* RC006XXH is a compound based on Nylon 66 resin containing 30% Carbon Fiber. Added features of this material include: Electrically Conductive, Healthcare.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-RC006XXH-PA-66.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.27 g/cc	1.27 g/cc	ASTM D792
Density	1.274 g/cc	0.04603 lb/in ³	ASTM D792
Moisture Absorption	0.700 %	0.700 %	50% RH, 24 hrs; ASTM D570
	1.00 %	1.00 %	23°C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0010 - 0.0030 cm/cm @Time 86400 sec	0.0010 - 0.0030 in/in @Time 24.0 hour	ASTM D955
Linear Mold Shrinkage, Transverse	0.0060 - 0.0080 cm/cm @Time 86400 sec	0.0060 - 0.0080 in/in @Time 24.0 hour	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	267 MPa	38700 psi	5 mm/min; ISO 527
	269 MPa	39000 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	2.1 %	2.1 %	Type I, 5 mm/min; ASTM D638
	2.1 %	2.1 %	5 mm/min; ISO 527
Tensile Modulus	24.76 GPa	3591 ksi	1 mm/min; ISO 527
	25.2 GPa	3650 ksi	5 mm/min; ASTM D638
Flexural Strength	364 MPa	52800 psi	ISO 178
	382 MPa	55400 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	18.96 GPa	2750 ksi	2 mm/min; ISO 178
	20.3 GPa	2940 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	1.02 J/cm	1.91 ft-lb/in	ASTM D256

Izod Impact, Unnotched Mechanical Properties	10.8 J/cm Metric	20.2 ft-lb/in English	ASTM D4812 Comments
Izod Impact, Notched (ISO)	11.0 kJ/m ²	5.23 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	64.0 kJ/m ²	30.5 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	15.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	8.33 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	63.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	35.0 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	261 Â°C	502 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	262 Â°C @Thickness 3.20 mm	504 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	257 Â°C	495 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	257 Â°C @Thickness 3.20 mm	495 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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