

SABIC Innovative Plastics LNP THERMOCOMP RC006H PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

LNP THERMOCOMP* RC006H 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-RC006H-PA-66.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.27 g/cc	1.27 g/cc	ASTM D792
Density	1.27 g/cc	0.0459 lb/in ³	ISO 1183
	1.278 g/cc	0.04617 lb/in ³	ASTM D792
Moisture Absorption	0.650 %	0.650 %	50% RH, 24 hrs; ASTM D570
	1.14 %	1.14 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.00080 cm/cm	0.00080 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.0010 cm/cm	0.0010 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0056 cm/cm	0.0056 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.0060 cm/cm	0.0060 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	266 MPa	38600 psi	Type I, 5 mm/min; ASTM D638
	271 MPa	39300 psi	
Elongation at Break	1.7 %	1.7 %	Type I, 5 mm/min; ASTM D638
	1.9 %	1.9 %	
Tensile Modulus	22.65 GPa	3285 ksi	1 mm/min; ISO 527
	27.78 GPa	4029 ksi	
Flexural Strength	408 MPa	59200 psi	1.3 mm/min, 50 mm span; ASTM D790

Mechanical Properties	Metric ^{MPa}	English ^l	Comments ^{1.3 mm/min, 50 mm span; ASTM D790}
	21.02 GPa	3049 ksi	2 mm/min; ISO 178
Izod Impact, Notched	0.960 J/cm	1.80 ft-lb/in	ASTM D256
Izod Impact, Unnotched	10.14 J/cm	19.00 ft-lb/in	ASTM D4812
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)	68.0 kJ/m ²	32.4 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	14.0 J	10.3 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	3.00 J	2.21 ft-lb	Multiaxial Impact; ISO 6603
Coefficient of Friction, Dynamic	0.46	0.46	ASTM D3702 Modified
Coefficient of Friction, Static	0.36	0.36	ASTM D3702 Modified
K (wear) Factor	40.3 x 10 ⁻⁸ mm ³ /N-M	20.0 x 10 ⁻¹⁰ in ³ -min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	10.8 Åµm/m-Å°C	6.00 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	11.5 Åµm/m-Å°C	6.39 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
CTE, linear, Transverse to Flow	48.6 Åµm/m-Å°C	27.0 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	48.6 Åµm/m-Å°C	27.0 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
Deflection Temperature at 1.8 MPa (264 psi)	261 Å°C	502 Å°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	

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