

SABIC Innovative Plastics LNP THERMOCOMP RC008H PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

LNP THERMOCOMP* RC008H is a compound based on Nylon 66 resin containing 40% 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-RC008H-PA-66.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.33 g/cc	1.33 g/cc	ASTM D792
Density	1.34 g/cc	0.0484 lb/in ³	ISO 1183
Moisture Absorption	0.540 %	0.540 %	50% RH, 24 hrs; ASTM D570
	0.780 %	0.780 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0020 - 0.0040 cm/cm	0.0020 - 0.0040 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0040 - 0.0060 cm/cm	0.0040 - 0.0060 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	288 MPa	41800 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	1.8 %	1.8 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	32.0 GPa	4640 ksi	5 mm/min; ASTM D638
Flexural Strength	429 MPa	62200 psi	2.6 mm/min, 100 mm span; ASTM D790
Flexural Modulus	26.1 GPa	3790 ksi	2.6 mm/min, 100 mm span; ASTM D790
Izod Impact, Notched	1.08 J/cm	2.02 ft-lb/in	ASTM D256
Izod Impact, Unnotched	12.19 J/cm	22.84 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	10.0 kJ/m ²	4.76 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	71.0 kJ/m ²	33.8 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	15.0 J	11.1 ft-lb	ASTM D3763
	@Temperature 23.0 ^o C	@Temperature 73.4 ^o F	

Impact Test Mechanical Properties	4.00 J Metric	2.95 ft-lb English	Multiaxial Impact; ISO 6603 Comments
Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	49.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$ @Temperature -30.0 - 30.0 $\text{Å}^\circ\text{C}$	27.2 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$ @Temperature -22.0 - 86.0 $\text{Å}^\circ\text{F}$	ASTM D696
CTE, linear, Transverse to Flow	7.24 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$ @Temperature -30.0 - 30.0 $\text{Å}^\circ\text{C}$	4.02 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$ @Temperature -22.0 - 86.0 $\text{Å}^\circ\text{F}$	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	261 $\text{Å}^\circ\text{C}$	502 $\text{Å}^\circ\text{F}$	Flatw 80*10*4 sp=64mm; ISO 75/Bf
Deflection Temperature at 1.8 MPa (264 psi)	252 $\text{Å}^\circ\text{C}$	486 $\text{Å}^\circ\text{F}$	Flatw 80*10*4 sp=64mm; ISO 75/Af
	255 $\text{Å}^\circ\text{C}$ @Thickness 3.20 mm	491 $\text{Å}^\circ\text{F}$ @Thickness 0.126 in	unannealed; ASTM D648

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