

SABIC Innovative Plastics LNP THERMOCOMP RC008 PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

LNP THERMOCOMP* RC008 is a compound based on Nylon 66 resin containing 40% Carbon Fiber. Added features of this material include:
Electrically Conductive.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-RC008-PA-66.php

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	267 MPa	38700 psi	ASTM D638
	293 MPa	42500 psi	ISO 527
Elongation at Break	1.7 %	1.7 %	ISO 527
	1.9 %	1.9 %	ASTM D638
Tensile Modulus	29.5 GPa	4280 ksi	1 mm/min; ISO 527
	30.7 GPa	4450 ksi	50 mm/min; ASTM D638
Flexural Strength	439 MPa	63700 psi	ASTM D790
	457 MPa	66300 psi	ISO 178
Flexural Modulus	23.16 GPa	3359 ksi	ASTM D790
	28.4 GPa	4120 ksi	ISO 178
Izod Impact, Notched	1.01 J/cm	1.89 ft-lb/in	ASTM D256
Izod Impact, Unnotched	11.1 J/cm	20.8 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)	74.0 kJ/m ²	35.2 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	9.00 J	6.64 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Coefficient of Friction, Dynamic	0.41	0.41	ASTM D3702 Modified
Coefficient of Friction, Static	0.30	0.30	ASTM D3702 Modified
K (wear) Factor	28.2 x 10 ⁻⁸ mm ³ /N-M	14.0 x 10 ⁻¹⁰ in ³ - min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa	>= 240 Â°C	>= 464 Â°F	

(264 psi) Thermal Properties	Metric	English	Flatw 80*10*4 sp=64mm; ISO 75/Af Comments
	253 Å°C @Thickness 3.20 mm	487 Å°F @Thickness 0.126 in	unannealed; ASTM D648
Flammability, UL94	HB @Thickness 1.50 mm	HB @Thickness 0.0591 in	UL 94 by SABIC-IP

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