

SABIC Innovative Plastics LNP THERMOCOMP RC004SXS PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

LNP* THERMOCOMP* RC004SXS is a compound based on Nylon 66 containing 20% Carbon Fiber. Added feature of this grade includes:
Heat Stabilized, Electrically Conductive.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-RC004SXS-PA-66.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.23 g/cc	1.23 g/cc	ASTM D792
Density	1.23 g/cc	0.0444 lb/in ³	ISO 1183
Moisture Absorption	0.890 %	0.890 %	50% RH, 24 hrs; ASTM D570
	1.20 %	1.20 %	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	0.0090 - 0.020 cm/cm	0.0090 - 0.020 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	222 MPa	32200 psi	Type I, 5 mm/min; ASTM D638
	242 MPa	35100 psi	5 mm/min; ISO 527
Elongation at Break	2.2 %	2.2 %	Type I, 5 mm/min; ASTM D638
	2.5 %	2.5 %	5 mm/min; ISO 527
Tensile Modulus	16.68 GPa	2419 ksi	50 mm/min; ASTM D638
	16.74 GPa	2428 ksi	1 mm/min; ISO 527
Flexural Strength	331 MPa	48000 psi	ISO 178
	348 MPa	50500 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	12.92 GPa	1874 ksi	2 mm/min; ISO 178
	13.7 GPa	1990 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.670 J/cm	1.26 ft-lb/in	ASTM D256

Izod Impact, Unnotched Mechanical Properties	8.84 J/cm Metric	16.6 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)	49.0 kJ/m ²	23.3 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	6.00 J @Temperature 23.0 Â°C	4.43 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	21.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	11.7 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	89.7 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	49.8 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	260 Â°C	500 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)	247 Â°C	477 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	252 Â°C @Thickness 3.20 mm	486 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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