

SABIC Innovative Plastics LNP THERMOCOMP RX96592 PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

LNP* Thermocomp* RX96592 is a compound based on Nylon 6/6 containing Proprietary Fillers.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-RX96592-PA-66.php

Physical Properties	Metric	English	Comments
Density	1.39 g/cc	0.0502 lb/in ³	ASTM D792
Moisture Absorption	0.850 %	0.850 %	50% RH, 24 hrs; ASTM D570
	1.40 %	1.40 %	23°C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0030 - 0.0060 cm/cm	0.0030 - 0.0060 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.010 - 0.040 cm/cm	0.010 - 0.040 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	152 MPa	22000 psi	5 mm/min; ISO 527
	154 MPa	22300 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	2.2 %	2.2 %	Type I, 5 mm/min; ASTM D638
	2.2 %	2.2 %	5 mm/min; ISO 527
Tensile Modulus	10.21 GPa	1481 ksi	1 mm/min; ISO 527
	10.3 GPa	1490 ksi	50 mm/min; ASTM D638
Flexural Strength	218 MPa	31600 psi	ISO 178
	221 MPa	32100 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Yield Strength	222 MPa	32200 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	8.81 GPa	1280 ksi	2 mm/min; ISO 178
	9.14 GPa	1330 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	6.26 J/cm	11.7 ft-lb/in	ASTM D4812

Mechanical Properties	Metric	English	Comments
Izod Impact, Unnotched (ISO)	37.0 kJ/m ²	17.6 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	1.00 J	0.738 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	38.1 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	21.2 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	89.6 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)	253 Â°C	487 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	255 Â°C @Thickness 3.20 mm	491 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	233 Â°C	451 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	239 Â°C @Thickness 3.20 mm	462 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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