

SABIC Innovative Plastics LNP THERMOCOMP RX10405H PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

LNP* Thermocomp* RX10405H is a compound based on Nylon 6/6 containing Carbon Fiber. Characteristics of this grade are: Healthcare.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-RX10405H-PA-66.php

Physical Properties	Metric	English	Comments
Density	1.47 g/cc	0.0531 lb/in ³	ISO 1183
	1.478 g/cc	0.05340 lb/in ³	ASTM D792
Moisture Absorption	0.600 %	0.600 %	50% RH, 24 hrs; ASTM D570
	0.970 %	0.970 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0010 - 0.0030 cm/cm	0.0010 - 0.0030 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	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	0.010 - 0.030 cm/cm	0.010 - 0.030 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	184 MPa	26700 psi	Type I, 5 mm/min; ASTM D638
	188 MPa	27300 psi	5 mm/min; ISO 527
Elongation at Break	2.5 %	2.5 %	Type I, 5 mm/min; ASTM D638
	2.7 %	2.7 %	5 mm/min; ISO 527
Tensile Modulus	12.2 GPa	1770 ksi	1 mm/min; ISO 527
	13.3 GPa	1930 ksi	50 mm/min; ASTM D638
Flexural Strength	275 MPa	39900 psi	1.3 mm/min, 50 mm span; ASTM D790
	287 MPa	41600 psi	ISO 178
Flexural Modulus	10.41 GPa	1510 ksi	1.3 mm/min, 50 mm span; ASTM D790
	12.1 GPa	1750 ksi	2 mm/min; ISO 178

Izod Impact, Notched Mechanical Properties	1.17 J/cm Metric	2.19 ft-lb/in English	ASTM D256 Comments
Izod Impact, Unnotched	11.37 J/cm	21.30 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	13.0 kJ/m ²	6.19 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	10.0 J @Temperature 23.0 Â°C	7.38 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Impact Test	3.00 J	2.21 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	25.2 Âµm/m-Â°C	14.0 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	26.8 Âµm/m-Â°C	14.9 Âµin/in-Â°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
CTE, linear, Transverse to Flow	57.6 Âµm/m-Â°C	32.0 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
Deflection Temperature at 1.8 MPa (264 psi)	59.2 Âµm/m-Â°C	32.9 Âµin/in-Â°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	>= 240 Â°C	>= 464 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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