

SABIC Innovative Plastics LNP THERMOCOMP RX00713H PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

LNP* Thermocomp* RX00713H is a compound based on Nylon 6/6 containing proprietary fillers. Characteristics of this grade are: Healthcare.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-RX00713H-PA-66.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.48 g/cc	1.48 g/cc	ASTM D792
Density	1.48 g/cc	0.0535 lb/in ³	ASTM D792
Moisture Absorption	0.550 %	0.550 %	50% RH, 24 hrs; ASTM D570
	0.810 %	0.810 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0030 - 0.0050 cm/cm	0.0030 - 0.0050 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	200 MPa	29000 psi	Type I, 5 mm/min; ASTM D638
	202 MPa	29300 psi	5 mm/min; ISO 527
Elongation at Break	2.9 %	2.9 %	5 mm/min; ISO 527
	3.0 %	3.0 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	13.03 GPa	1890 ksi	1 mm/min; ISO 527
	13.04 GPa	1891 ksi	50 mm/min; ASTM D638
Flexural Strength	304 MPa	44100 psi	ISO 178
	309 MPa	44800 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	11.33 GPa	1643 ksi	2 mm/min; ISO 178
	11.7 GPa	1700 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	1.13 J/cm	2.12 ft-lb/in	ASTM D256

Izod Impact, Unnotched Mechanical Properties	12.2 J/cm Metric	22.9 ft-lb/in English	ASTM D4812 Comments
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)	75.0 kJ/m ²	35.7 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	9.00 J @Temperature 23.0 Â°C	6.64 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	24.7 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	13.7 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	84.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	46.7 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
	264 Â°C @Thickness 3.20 mm	507 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	250 Â°C	482 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	255 Â°C @Thickness 3.20 mm	491 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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