

SABIC Innovative Plastics LNP THERMOCOMP RX98372H PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

LNP* Thermocomp* RX98372H is a compound based on Nylon 66 resin 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-RX98372H-PA-66.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.69 g/cc	1.69 g/cc	ASTM D792
Density	1.69 g/cc	0.0611 lb/in ³	ASTM D792
Moisture Absorption	0.390 %	0.390 %	50% RH, 24 hrs; ASTM D570
	0.510 %	0.510 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0040 - 0.0060 cm/cm	0.0040 - 0.0060 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0070 - 0.0090 cm/cm	0.0070 - 0.0090 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	243 MPa	35200 psi	5 mm/min; ISO 527
	245 MPa	35500 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	1.9 %	1.9 %	Type I, 5 mm/min; ASTM D638
	1.9 %	1.9 %	5 mm/min; ISO 527
Tensile Modulus	21.35 GPa	3097 ksi	1 mm/min; ISO 527
	21.86 GPa	3171 ksi	50 mm/min; ASTM D638
Flexural Strength	383 MPa	55500 psi	1.3 mm/min, 50 mm span; ASTM D790
	383 MPa	55500 psi	ISO 178
Flexural Modulus	19.5 GPa	2830 ksi	1.3 mm/min, 50 mm span; ASTM D790
	20.3 GPa	2940 ksi	2 mm/min; ISO 178
Izod Impact, Notched	1.82 J/cm	3.41 ft-lb/in	ASTM D256

Izod Impact, Unnotched Mechanical Properties	11.4 J/cm Metric	21.4 ft-lb/in English	ASTM D4812 Comments
Izod Impact, Notched (ISO)	15.0 kJ/m ²	7.14 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	64.0 kJ/m ²	30.5 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	4.00 J	2.95 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	15.0 Âµm/m-Â°C	8.33 Âµin/in-Â°F	ASTM D696
	@Temperature -30.0 - 30.0 Â°C	@Temperature -22.0 - 86.0 Â°F	
CTE, linear, Transverse to Flow	36.0 Âµm/m-Â°C	20.0 Âµin/in-Â°F	ASTM D696
	@Temperature -30.0 - 30.0 Â°C	@Temperature -22.0 - 86.0 Â°F	
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)	253 Â°C	487 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	253 Â°C @Thickness 3.20 mm	487 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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