

SABIC Innovative Plastics LNP THERMOCOMP RX10408H PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

LNP* Thermocomp* RX10408H is a compound based on Nylon 66 containing Proprietary Fillers. Characteristics are: Radiopacity and Healthcare.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-RX10408H-PA-66.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.54 g/cc	1.54 g/cc	ASTM D792
Density	1.53 g/cc	0.0553 lb/in ³	ASTM D792
Moisture Absorption	0.640 %	0.640 %	50% RH, 24 hrs; ASTM D570
	0.990 %	0.990 %	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	191 MPa	27700 psi	5 mm/min; ISO 527
	196 MPa	28400 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	197 MPa	28600 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	2.9 %	2.9 %	Type I, 5 mm/min; ASTM D638
	2.9 %	2.9 %	5 mm/min; ISO 527
Tensile Modulus	12.42 GPa	1801 ksi	1 mm/min; ISO 527
	12.58 GPa	1825 ksi	5 mm/min; ASTM D638
Flexural Strength	277 MPa	40200 psi	ISO 178
	294 MPa	42600 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	10.17 GPa	1475 ksi	2 mm/min; ISO 178
	11.0 GPa	1600 ksi	1.3 mm/min, 50 mm span; ASTM D790

Izod Impact Notched Mechanical Properties	1.07 J/cm Metric	2.00 ft-lb/in English	ASTM D256 Comments
Izod Impact, Unnotched	11.9 J/cm	22.3 ft-lb/in	ASTM D4812
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)	73.0 kJ/m ²	34.7 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	2.00 J	1.48 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	42.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	23.3 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	61.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	33.9 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	256 Â°C	493 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)	251 Â°C	484 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	254 Â°C @Thickness 3.20 mm	489 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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