

SABIC Innovative Plastics LNP THERMOCOMP RX08401 PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

LNP* Thermocomp* RX08401 is a compound based on Nylon 66 containing Glass Fiber. Added feature of this grade include: Impact Modified.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-RX08401-PA-66.php

Physical Properties	Metric	English	Comments
Density	1.38 g/cc	0.0499 lb/in ³	ASTM D792
	1.38 g/cc	0.0499 lb/in ³	ISO 1183
Moisture Absorption	0.860 %	0.860 %	50% RH, 24 hrs; ASTM D570
	1.40 %	1.40 %	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	0.010 - 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	133 MPa	19300 psi	5 mm/min; ISO 527
	139 MPa	20200 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	2.6 %	2.6 %	5 mm/min; ISO 527
	2.8 %	2.8 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	8.43 GPa	1220 ksi	1 mm/min; ISO 527
	8.52 GPa	1240 ksi	5 mm/min; ASTM D638
Flexural Strength	198 MPa	28700 psi	1.3 mm/min, 50 mm span; ASTM D790
	206 MPa	29900 psi	ISO 178
Flexural Modulus	7.44 GPa	1080 ksi	1.3 mm/min, 50 mm span; ASTM D790
	7.73 GPa	1120 ksi	2 mm/min; ISO 178
Izod Impact, Notched	0.490 J/cm	0.918 ft-lb/in	ASTM D256

Izod Impact, Unnotched Mechanical Properties	5.09 J/cm Metric	9.54 ft-lb/in English	ASTM D4812 Comments
Izod Impact, Notched (ISO)	4.00 kJ/m ²	1.90 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	30.0 kJ/m ²	14.3 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	42.0 Âµm/m-Â°C	23.3 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	74.0 Âµm/m-Â°C	41.1 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)	254 Â°C	489 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	253 Â°C @Thickness 3.20 mm	487 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
	236 Â°C @Thickness 3.20 mm	457 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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