

SABIC Innovative Plastics LNP THERMOCOMP RF007SXXN PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

LNP* THERMOCOMP* RF007SXXN is a Hydro-Stable, 35% Glass Fiber reinforced compound based on Nylon 66. Added features of this grade include: Heat Stabilized, NSF Listed.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-RF007SXXN-PA-66.php

Physical Properties	Metric	English	Comments
Specific Gravity	3.79 g/cc	3.79 g/cc	ASTM D792
Density	3.78 g/cc	0.137 lb/in ³	ASTM D792
Moisture Absorption	0.450 %	0.450 %	50% RH, 24 hrs; ASTM D570
	0.510 %	0.510 %	23°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	175 MPa	25400 psi	Type I, 5 mm/min; ASTM D638
	193 MPa	28000 psi	5 mm/min; ISO 527
Tensile Strength, Yield	195 MPa	28300 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	2.5 %	2.5 %	5 mm/min; ISO 527
	2.5 %	2.5 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	11.66 GPa	1691 ksi	1 mm/min; ISO 527
	11.86 GPa	1720 ksi	5 mm/min; ASTM D638
Flexural Strength	267 MPa	38700 psi	ISO 178
	284 MPa	41200 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Yield Strength	285 MPa	41300 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	9.83 GPa	1430 ksi	2 mm/min; ISO 178

Mechanical Properties	10.6 GPa Metric	1540 ksi English	1.3 mm/min, 50 mm span; ASTM D790 Comments
Izod Impact, Notched	1.01 J/cm	1.89 ft-lb/in	ASTM D256
Izod Impact, Unnotched	10.0 J/cm	18.7 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	10.0 kJ/m ²	4.76 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	61.0 kJ/m ²	29.0 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	7.00 J @Temperature 23.0 °C	5.16 ft-lb @Temperature 73.4 °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	38.0 µm/m-°C @Temperature -30.0 - 30.0 °C	21.1 µin/in-°F @Temperature -22.0 - 86.0 °F	ASTM D696
CTE, linear, Transverse to Flow	63.0 µm/m-°C @Temperature -30.0 - 30.0 °C	35.0 µin/in-°F @Temperature -22.0 - 86.0 °F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	261 °C	502 °F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	261 °C @Thickness 3.20 mm	502 °F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	252 °C	486 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	255 °C @Thickness 3.20 mm	491 °F @Thickness 0.126 in	unannealed; ASTM D648

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