

SABIC Innovative Plastics LNP THERMOCOMP RF006SXZ PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

LNP* THERMOCOMP* RF006SXZ is a compound based on Nylon 66 resin containing 30% Glass Fiber. Added feature of this material is:
Heat Stabilized.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-RF006SXZ-PA-66.php

Physical Properties	Metric	English	Comments
Density	1.40 g/cc	0.0506 lb/in ³	ASTM D792
	1.40 g/cc	0.0506 lb/in ³	ISO 1183
Moisture Absorption	0.670 %	0.670 %	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	0.0090 - 0.020 cm/cm	0.0090 - 0.020 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	194 MPa	28100 psi	5 mm/min; ISO 527
	200 MPa	29000 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	195 MPa	28300 psi	5 mm/min; ISO 527
	200 MPa	29000 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	3.3 %	3.3 %	Type I, 5 mm/min; ASTM D638
	3.4 %	3.4 %	5 mm/min; ISO 527
Elongation at Yield	3.3 %	3.3 %	Type I, 5 mm/min; ASTM D638
	3.3 %	3.3 %	5 mm/min; ISO 527
Tensile Modulus	10.73 GPa	1556 ksi	1 mm/min; ISO 527
	11.42 GPa	1656 ksi	50 mm/min; ASTM D638
Flexural Strength	279 MPa	40500 psi	ISO 178
	286 MPa	41500 psi	1.3 mm/min, 50 mm span; ASTM D790

Mechanical Properties	Metric	English	Comments
Flexural Yield Strength	286 MPa	41500 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	9.25 GPa	1340 ksi	2 mm/min; ISO 178
	9.51 GPa	1380 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	1.34 J/cm	2.51 ft-lb/in	ASTM D256
Izod Impact, Unnotched	12.8 J/cm	24.0 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	14.0 kJ/m ²	6.66 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	82.0 kJ/m ²	39.0 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	13.0 J @Temperature 23.0 Â°C	9.59 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	32.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	17.8 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	64.3 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	35.7 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	258 Â°C	496 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)	242 Â°C	468 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	251 Â°C @Thickness 3.20 mm	484 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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