

SABIC Innovative Plastics LNP THERMOCOMP RF007SXP PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

LNP* THERMOCOMP* RF007SXP is a compound based on Nylon 66 containing 35% Glass Fiber. Added feature of this material includes:
Heat Stabilized.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-RF007SXP-PA-66.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.42 g/cc	1.42 g/cc	ASTM D792
Density	1.42 g/cc	0.0513 lb/in ³	ASTM D792
Moisture Absorption	0.730 %	0.730 %	50% RH, 24 hrs; ASTM D570
	1.00 %	1.00 %	23°C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0020 - 0.0050 cm/cm	0.0020 - 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	185 MPa	26800 psi	Type I, 5 mm/min; ASTM D638
	185 MPa	26800 psi	5 mm/min; ISO 527
Tensile Strength, Yield	185 MPa	26800 psi	Type I, 5 mm/min; ASTM D638
	185 MPa	26800 psi	5 mm/min; ISO 527
Elongation at Break	2.5 %	2.5 %	Type I, 5 mm/min; ASTM D638
	2.6 %	2.6 %	5 mm/min; ISO 527
Elongation at Yield	2.5 %	2.5 %	Type I, 5 mm/min; ASTM D638
	2.6 %	2.6 %	5 mm/min; ISO 527
Tensile Modulus	11.17 GPa	1620 ksi	1 mm/min; ISO 527
	11.38 GPa	1651 ksi	50 mm/min; ASTM D638
Flexural Strength	249 MPa	36100 psi	1.3 mm/min, 50 mm span; ASTM D790
	266 MPa	38600 psi	ISO 178

Mechanical Properties	Metric	English	Comments
Flexural Yield Strength	250 MPa	36300 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	8.10 GPa	1170 ksi	1.3 mm/min, 50 mm span; ASTM D790
	9.44 GPa	1370 ksi	2 mm/min; ISO 178
Izod Impact, Notched	0.780 J/cm	1.46 ft-lb/in	ASTM D256
Izod Impact, Unnotched	7.88 J/cm	14.8 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	8.00 kJ/m ²	3.81 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	55.0 kJ/m ²	26.2 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	3.00 J	2.21 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	25.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	13.9 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	73.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	40.6 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)	245 Â°C	473 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	252 Â°C @Thickness 3.20 mm	486 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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