

SABIC Innovative Plastics LNP THERMOCOMP RF006XXY PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

LNP* Thermocomp* RF006XXY is a compound based on Nylon 66 containing 30% Glass Fiber.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-RF006XXY-PA-66.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.40 g/cc	1.40 g/cc	ASTM D792
Density	1.40 g/cc	0.0506 lb/in ³	ASTM D792
Moisture Absorption	0.640 %	0.640 %	50% RH, 24 hrs; ASTM D570
	0.890 %	0.890 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0040 - 0.0060 cm/cm @Time 86400 sec	0.0040 - 0.0060 in/in @Time 24.0 hour	ASTM D955
Linear Mold Shrinkage, Transverse	0.010 - 0.030 cm/cm @Time 86400 sec	0.010 - 0.030 in/in @Time 24.0 hour	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	183 MPa	26500 psi	Type I, 5 mm/min; ASTM D638
	183 MPa	26500 psi	5 mm/min; ISO 527
Tensile Strength, Yield	180 MPa	26100 psi	5 mm/min; ISO 527
Elongation at Break	2.6 %	2.6 %	5 mm/min; ISO 527
	2.8 %	2.8 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	2.7 %	2.7 %	5 mm/min; ISO 527
Tensile Modulus	11.38 GPa	1651 ksi	5 mm/min; ASTM D638
	11.61 GPa	1684 ksi	1 mm/min; ISO 527
Flexural Strength	275 MPa	39900 psi	ISO 178
	278 MPa	40300 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	9.96 GPa	1440 ksi	2 mm/min; ISO 178
	10.2 GPa	1480 ksi	1.3 mm/min, 50 mm span; ASTM D790

Mechanical Properties	Metric	English	Comments
Izod Impact, Unnotched	11.0 J/cm	20.6 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	10.0 kJ/mÂ²	4.76 ft-lb/inÂ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	61.0 kJ/mÂ²	29.0 ft-lb/inÂ²	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	2.00 J	1.48 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	67.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	37.2 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	257 Â°C	495 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)	246 Â°C	475 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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