

SABIC Innovative Plastics LNP THERMOCOMP RF006 PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

LNP* THERMOCOMP* RF006 is a compound based on Nylon 66 resin containing 30% Glass Fiber.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-RF006-PA-66.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.41 g/cc	1.41 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
	0.940 %	0.940 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0030 - 0.0060 cm/cm	0.0030 - 0.0060 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	160 MPa	23200 psi	5 mm/min; ISO 527
	167 MPa	24200 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	2.4 %	2.4 %	Type I, 5 mm/min; ASTM D638
	2.4 %	2.4 %	5 mm/min; ISO 527
Tensile Modulus	10.57 GPa	1533 ksi	1 mm/min; ISO 527
	11.42 GPa	1656 ksi	50 mm/min; ASTM D638
Flexural Strength	233 MPa	33800 psi	ISO 178
	242 MPa	35100 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Yield Strength	243 MPa	35200 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	9.40 GPa	1360 ksi	2 mm/min; ISO 178
	9.70 GPa	1410 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.670 J/cm	1.26 ft-lb/in	ASTM D256

Mechanical Properties	Metric	English	Comments
Izod Impact, Unnotched (ISO)	44.0 kJ/m ²	20.9 ft-lb/in ²	80*10*4; ISO 180/1A
Dart Drop, Total Energy	6.00 J @Temperature 23.0 Â°C	4.43 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	27.1 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	15.1 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	98.1 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	54.5 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	255 Â°C	491 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
Deflection Temperature at 1.8 MPa (264 psi)	236 Â°C	457 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	246 Â°C @Thickness 3.20 mm	475 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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