

SABIC Innovative Plastics LNP Thermocomp RF004S PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

LNP* Thermocomp* RF004S is a Nylon 6/6 containing Glass Fiber. Characteristics are Heat Stabilized. This data was supplied by SABIC-IP for the Americas region.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-Thermocomp-RF004S-PA-66.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.30 g/cc	1.30 g/cc	ASTM D 792
Density	1.30 g/cc	0.0470 lb/in ³	ASTM D 792
Moisture Absorption at Equilibrium	1.6 %	1.6 %	23°C / 50% RH; ISO 62
	1.0 %	1.0 %	50% RH; ASTM D 570
Linear Mold Shrinkage, Flow	@Time 86400 sec	@Time 24.0 hour	
	0.0050 - 0.0080 cm/cm	0.0050 - 0.0080 in/in	ASTM D 955
Linear Mold Shrinkage, Transverse	@Time 86400 sec	@Time 24.0 hour	
	0.010 - 0.030 cm/cm	0.010 - 0.030 in/in	ASTM D 955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	121 MPa	17500 psi	Type I, 5 mm/min; ASTM D 638
	121 MPa	17500 psi	5 mm/min; ISO 527
Tensile Strength, Yield	121 MPa	17500 psi	Type I, 5 mm/min; ASTM D 638
	121 MPa	17500 psi	5 mm/min; ISO 527
Elongation at Break	1.9 %	1.9 %	5 mm/min; ISO 527
	2.1 %	2.1 %	Type I, 5 mm/min; ASTM D 638
Elongation at Yield	1.9 %	1.9 %	5 mm/min; ISO 527
	2.1 %	2.1 %	Type I, 5 mm/min; ASTM D 638
Tensile Modulus	7.18 GPa	1040 ksi	1 mm/min; ISO 527
	7.93 GPa	1150 ksi	50 mm/min; ASTM D 638
Flexural Strength	186 MPa	27000 psi	ISO 178

Mechanical Properties	Metric	English	Comments
Flexural Yield Strength	187 MPa	27100 psi	1.3 mm/min, 50 mm span; ASTM D 790
Flexural Modulus	5.34 GPa	775 ksi	1.3 mm/min, 50 mm span; ASTM D 790
	5.86 GPa	850 ksi	2 mm/min; ISO 178
Izod Impact, Notched	0.500 J/cm @Temperature 23.0 Â°C	0.937 ft-lb/in @Temperature 73.4 Â°F	ASTM D 256
Izod Impact, Unnotched	5.16 J/cm @Temperature 23.0 Â°C	9.67 ft-lb/in @Temperature 73.4 Â°F	ASTM D 4812
Izod Impact, Notched (ISO)	4.00 kJ/mÂ² @Temperature 23.0 Â°C	1.90 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	30.0 kJ/mÂ² @Temperature 23.0 Â°C	14.3 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1U
Impact Test	1.00 J	0.738 ft-lb	Multiaxial Impact; ISO 6603
	7.00 J @Temperature 23.0 Â°C	5.16 ft-lb @Temperature 73.4 Â°F	Instrumented Impact Total Energy; ASTM D 3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	3.00 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	1.67 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D 696
CTE, linear, Transverse to Flow	8.00 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	4.44 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D 696
Deflection Temperature at 0.46 MPa (66 psi)	253 Â°C	487 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	255 Â°C @Thickness 3.20 mm	491 Â°F @Thickness 0.126 in	unannealed; ASTM D 648
Deflection Temperature at 1.8 MPa (264 psi)	226 Â°C	439 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	236 Â°C	457 Â°F	

Thermal Properties

Metric
@ Thickness 3.20 mm

English
@ Thickness 0.126 in

unannealed; ASTM D 648
Comments

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China