

SABIC Innovative Plastics LNP THERMOCOMP RFB66 PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

LNP* THERMOCOMP* RFB66 is a compound based on Nylon 66 resin containing 30% Glass Fiber, 30% Glass Bead.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-RFB66-PA-66.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.70 g/cc	1.70 g/cc	ASTM D792
Density	1.69 g/cc	0.0611 lb/in ³	ASTM D792
Moisture Absorption	0.340 %	0.340 %	50% RH, 24 hrs; ASTM D570
	0.510 %	0.510 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0040 - 0.0070 cm/cm	0.0040 - 0.0070 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	122 MPa	17700 psi	5 mm/min; ISO 527
	138 MPa	20000 psi	Type I, 5 mm/min; ASTM D638
	151 MPa	21900 psi	ASTM D638
Tensile Strength, Yield	128 MPa	18600 psi	5 mm/min; ISO 527
	138 MPa	20000 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	1.7 %	1.7 %	ASTM D638
	1.7 %	1.7 %	5 mm/min; ISO 527
	1.8 %	1.8 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	1.7 %	1.7 %	5 mm/min; ISO 527
	1.8 %	1.8 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	13.36 GPa	1938 ksi	1 mm/min; ISO 527
	14.98 GPa	2173 ksi	50 mm/min; ASTM D638
Flexural Strength	209 MPa	30300 psi	ISO 178

Mechanical Properties	Metric	English	Comments
	221 MPa	32100 psi	1.3 mm/min, 50 mm span; ASTM D790
	248 MPa	36000 psi	ASTM D790
Flexural Yield Strength	222 MPa	32200 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	12.57 GPa	1823 ksi	2 mm/min; ISO 178
	13.0 GPa	1890 ksi	1.3 mm/min, 50 mm span; ASTM D790
	13.78 GPa	1999 ksi	ASTM D790
Izod Impact, Notched	0.630 J/cm	1.18 ft-lb/in	ASTM D256
Izod Impact, Unnotched	5.32 J/cm	9.97 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	6.00 kJ/m ²	2.86 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	36.0 kJ/m ²	17.1 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	10.0 J @Temperature 23.0 Â°C	7.38 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Impact Test	4.00 J	2.95 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	35.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	19.4 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	51.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	28.3 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	249 Â°C	480 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	257 Â°C @Thickness 3.20 mm	495 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	232 Â°C	450 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/ Af
	244 Â°C @Thickness 3.20 mm	471 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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