

SABIC Innovative Plastics LNP THERMOCOMP RB004 PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

LNP* THERMOCOMP* RB004 is a compound based on Nylon 66 containing Glass Beads.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-RB004-PA-66.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.29 g/cc	1.29 g/cc	ASTM D792
Density	1.28 g/cc	0.0462 lb/in ³	ASTM D792
Moisture Absorption	0.620 %	0.620 %	50% RH, 24 hrs; ASTM D570
	1.10 %	1.10 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	>= 0.020 cm/cm @Time 86400 sec	>= 0.020 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	75.0 MPa	10900 psi	5 mm/min; ISO 527
	80.0 MPa	11600 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	79.0 MPa	11500 psi	5 mm/min; ISO 527
Elongation at Break	3.7 %	3.7 %	Type I, 5 mm/min; ASTM D638
	3.9 %	3.9 %	5 mm/min; ISO 527
Elongation at Yield	3.8 %	3.8 %	5 mm/min; ISO 527
Tensile Modulus	3.96 GPa	574 ksi	1 mm/min; ISO 527
	4.10 GPa	595 ksi	50 mm/min; ASTM D638
Flexural Strength	119 MPa	17300 psi	ISO 178
Flexural Modulus	3.70 GPa	537 ksi	2 mm/min; ISO 178
	3.87 GPa	561 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.280 J/cm	0.525 ft-lb/in	ASTM D256

Izod Impact, Unnotched Mechanical Properties	2.27 J/cm Metric	4.25 ft-lb/in English	ASTM D4812 Comments
Izod Impact, Notched (ISO)	4.00 kJ/m ²	1.90 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	16.0 kJ/m ²	7.61 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	2.00 J @Temperature 23.0 Â°C	1.48 ft-lb @Temperature 73.4 Â°F	ASTM D3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel 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
CTE, linear, Transverse to Flow	71.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	39.4 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	219 Â°C	426 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	233 Â°C @Thickness 3.20 mm	451 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	77.0 Â°C	171 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	81.0 Â°C @Thickness 3.20 mm	178 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