

SABIC Innovative Plastics LNP LUBRICOMP RFG16S PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

LNP* LUBRICOMP* RFG16S is a compound based on Nylon 66 resin containing 5% Graphite, 30% Glass Fiber. Added features of this material include: Heat Stabilized, Wear Resistant.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-RFG16S-PA-66.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.38 g/cc	1.38 g/cc	ASTM D792
Density	1.37 g/cc	0.0495 lb/in ³	ISO 1183
Moisture Absorption	0.600 %	0.600 %	50% RH, 24 hrs; ASTM D570
	0.900 %	0.900 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0040 - 0.0060 cm/cm	0.0040 - 0.0060 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.010 - 0.030 cm/cm	0.010 - 0.030 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	165 MPa	23900 psi	5 mm/min; ISO 527
	169 MPa	24500 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	165 MPa	23900 psi	5 mm/min; ISO 527
	169 MPa	24500 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	2.7 %	2.7 %	Type I, 5 mm/min; ASTM D638
	2.8 %	2.8 %	5 mm/min; ISO 527
Elongation at Yield	2.7 %	2.7 %	Type I, 5 mm/min; ASTM D638
	2.8 %	2.8 %	5 mm/min; ISO 527
Tensile Modulus	9.63 GPa	1400 ksi	1 mm/min; ISO 527
	11.24 GPa	1630 ksi	50 mm/min; ASTM D638
Flexural Strength	232 MPa	33600 psi	ISO 178
	233 MPa	33800 psi	1.3 mm/min, 50 mm span; ASTM D790

Mechanical Properties	Metric	English	Comments
Flexural Yield Strength	23.4 MPa	33900 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	8.38 GPa	1220 ksi	1.3 mm/min, 50 mm span; ASTM D790
	8.45 GPa	1230 ksi	2 mm/min; ISO 178
Izod Impact, Unnotched	6.85 J/cm	12.8 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)	46.0 kJ/m ²	21.9 ft-lb/in ²	80*10*4; ISO 180/1U
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
Coefficient of Friction, Dynamic	0.40	0.40	ASTM D3702 Modified
Coefficient of Friction, Static	0.37	0.37	ASTM D3702 Modified
K (wear) Factor	286 x 10 ⁻⁸ mm ³ /N-M	142 x 10 ⁻¹⁰ in ³ - min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	27.4 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	15.2 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	66.2 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	36.8 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
	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)	242 Â°C	468 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/ Af
	248 Â°C @Thickness 3.20 mm	478 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