

SABIC Innovative Plastics LNP LUBRICOMP RFI12 PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

LNP* LUBRICOMP* RFI12 is a compound based on Nylon 66 resin containing 10% Glass Fiber, 2% Silicone. Added feature of this material is: Wear Resistant.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-RFI12-PA-66.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.25 g/cc	1.25 g/cc	ASTM D792
Density	1.25 g/cc	0.0452 lb/in ³	ASTM D792
Moisture Absorption	0.980 %	0.980 %	50% RH, 24 hrs; ASTM D570
	1.50 %	1.50 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0090 - 0.020 cm/cm	0.0090 - 0.020 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	107 MPa	15500 psi	5 mm/min; ISO 527
	114 MPa	16500 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	107 MPa	15500 psi	5 mm/min; ISO 527
	114 MPa	16500 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	2.6 %	2.6 %	5 mm/min; ISO 527
	2.8 %	2.8 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	2.6 %	2.6 %	5 mm/min; ISO 527
	2.8 %	2.8 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	5.26 GPa	763 ksi	1 mm/min; ISO 527
	5.50 GPa	798 ksi	50 mm/min; ASTM D638
Flexural Strength	155 MPa	22500 psi	ISO 178
	165 MPa	23900 psi	1.3 mm/min, 50 mm span; ASTM D790

Mechanical Properties	Metric	English	Comments
Flexural Yield Strength	166 MPa	24100 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	4.43 GPa	643 ksi	2 mm/min; ISO 178
	4.78 GPa	693 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.400 J/cm	0.749 ft-lb/in	ASTM D256
Izod Impact, Unnotched	4.62 J/cm	8.66 ft-lb/in	ASTM D4812
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)	27.0 kJ/m ²	12.8 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	5.00 J @Temperature 23.0 Â°C	3.69 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Impact Test	1.00 J	0.738 ft-lb	Multiaxial Impact; ISO 6603
Coefficient of Friction, Dynamic	0.47	0.47	ASTM D3702 Modified
Coefficient of Friction, Static	0.43	0.43	ASTM D3702 Modified
K (wear) Factor	524 x 10 ⁻⁸ mm ³ /N-M	260 x 10 ⁻¹⁰ in ³ - min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	255 Â°C	491 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)	236 Â°C	457 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	241 Â°C @Thickness 3.20 mm	466 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