

SABIC Innovative Plastics LNP LUBRICOMP RFN16S PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

LNP LUBRICOMP* RFN16S is a compound based on Nylon 66 resin containing 30% Glass Fiber, 5% MOS2. 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-RFN16S-PA-66.php

Physical Properties	Metric	English	Comments
Density	1.41 g/cc	0.0509 lb/in ³	ASTM D792
	1.41 g/cc	0.0509 lb/in ³	ISO 1183
Moisture Absorption	0.650 %	0.650 %	50% RH, 24 hrs; ASTM D570
	1.14 %	1.14 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0028 cm/cm	0.0028 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.0030 cm/cm	0.0030 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.013 cm/cm	0.013 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0134 cm/cm	0.0134 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	160 MPa	23200 psi	ASTM D638
	162 MPa	23500 psi	ISO 527
Elongation at Break	2.8 %	2.8 %	ASTM D638
	3.0 %	3.0 %	ISO 527
Tensile Modulus	9.90 GPa	1440 ksi	1 mm/min; ISO 527
	10.68 GPa	1549 ksi	50 mm/min; ASTM D638
Flexural Strength	246 MPa	35700 psi	ASTM D790
	255 MPa	37000 psi	ISO 178

Flexural Modulus Mechanical Properties	8.41 GPa Metric	1220 ksi English	ASTM D790 Comments
	9.80 GPa	1420 ksi	ISO 178
Izod Impact, Notched	0.800 J/cm	1.50 ft-lb/in	ASTM D256
Izod Impact, Unnotched	8.65 J/cm	16.2 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	8.00 kJ/m ²	3.81 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	57.0 kJ/m ²	27.1 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	9.00 J	6.64 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	2.00 J	1.48 ft-lb	Multiaxial Impact; ISO 6603
Coefficient of Friction, Dynamic	0.43	0.43	ASTM D3702 Modified
Coefficient of Friction, Static	0.48	0.48	ASTM D3702 Modified
K (wear) Factor	320 x 10 ⁻⁸ mm ³ /N-M	159 x 10 ⁻¹⁰ in ³ - min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	30.6 Âµm/m-Â°C	17.0 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	31.6 Âµm/m-Â°C	17.6 Âµin/in-Â°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
CTE, linear, Transverse to Flow	63.0 Âµm/m-Â°C	35.0 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	63.1 Âµm/m-Â°C	35.1 Âµin/in-Â°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
Deflection Temperature at 0.46 MPa (66 psi)	261 Â°C	502 Â°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	220 Â°C	428 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	249 Â°C	480 Â°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	

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