

SABIC Innovative Plastics LNP Lubricomp RFN18SXZ PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Glass Fiber/MoS2 Filled

Material Notes:

LNP LUBRICOMP* RFN18SXZ is a compound based on Nylon 66 resin containing Glass Fiber, MOS2. Added features of this material include: Heat Stabilized. This data was supplied by SABIC-IP for the Americas region.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-Lubricomp-RFN18SXZ-PA-66.php

Physical Properties	Metric	English	Comments
Density	1.51 g/cc	0.0546 lb/in ³	ISO 1183
	1.51 g/cc	0.0546 lb/in ³	ASTM D 792
Moisture Absorption at Equilibrium	1.0 %	1.0 %	23 ^o C / 50% RH; ISO 62
	0.61 % @Time 86400 sec	0.61 % @Time 24.0 hour	50% RH; ASTM D 570
Linear Mold Shrinkage, Flow	0.0030 cm/cm	0.0030 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	
	0.0035 cm/cm	0.0035 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.011 cm/cm	0.011 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	
	0.0117 cm/cm	0.0117 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	177 MPa	25700 psi	ASTM D 638
	192 MPa	27800 psi	ISO 527
Elongation at Break	1.8 %	1.8 %	ASTM D 638
	2.2 %	2.2 %	ISO 527
Tensile Modulus	14.0 GPa	2030 ksi	1 mm/min; ISO 527
	15.51 GPa	2250 ksi	50 mm/min; ASTM D 638
Flexural Strength	268 MPa	38900 psi	ASTM D 790
	287 MPa	41600 psi	ISO 178

Mechanical Properties	Metric	English	Comments
Flexural Modulus	10.75 GPa	1900 ksi	ASTM D 790
	13.1 GPa	1900 ksi	ISO 178
Izod Impact, Notched	0.840 J/cm @Temperature 23.0 Â°C	1.57 ft-lb/in @Temperature 73.4 Â°F	ASTM D 256
Izod Impact, Unnotched	8.91 J/cm @Temperature 23.0 Â°C	16.7 ft-lb/in @Temperature 73.4 Â°F	ASTM D 4812
Izod Impact, Notched (ISO)	10.0 kJ/mÂ² @Temperature 23.0 Â°C	4.76 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	59.0 kJ/mÂ² @Temperature 23.0 Â°C	28.1 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1U
Impact Test	2.00 J	1.48 ft-lb	Multiaxial Impact; ISO 6603
	8.00 J @Temperature 23.0 Â°C	5.90 ft-lb @Temperature 73.4 Â°F	Instrumented Impact Energy @ peak; ASTM D 3763
Coefficient of Friction, Dynamic	0.75	0.75	ASTM D 3702 Modified
Coefficient of Friction, Static	0.59	0.59	ASTM D 3702 Modified
K (wear) Factor	90.6 x 10 ⁻⁸ mmÂ³/N-M	45.0 x 10 ⁻¹⁰ inÂ³- min/ft-lb-hr	Washer; ASTM D 3702 Modified

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	259 Â°C @Thickness 3.20 mm	498 Â°F @Thickness 0.126 in	unannealed; ASTM D 648
Deflection Temperature at 1.8 MPa (264 psi)	>= 240 Â°C	>= 464 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	250 Â°C @Thickness 3.20 mm	482 Â°F @Thickness 0.126 in	unannealed; ASTM D 648

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