

SABIC Innovative Plastics LNP LUBRICOMP RFL449 PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

LNP* LUBRICOMP* RFL449 is a compound based on Nylon 66 resin containing 20% Glass Fiber, 20% PTFE. Added features of this grade include: Wear Resistant, Flame Retardant.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-RFL449-PA-66.php

Physical Properties	Metric	English	Comments
Density	1.75 g/cc	0.0632 lb/in ³	ASTM D792
Moisture Absorption	0.250 %	0.250 %	50% RH, 24 hrs; ASTM D570
	0.410 %	0.410 %	23°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	101 MPa	14600 psi	Type I, 5 mm/min; ASTM D638
	104 MPa	15100 psi	5 mm/min; ISO 527
Tensile Strength, Yield	111 MPa	16100 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	1.5 %	1.5 %	5 mm/min; ISO 527
	1.8 %	1.8 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	9.37 GPa	1360 ksi	1 mm/min; ISO 527
	9.85 GPa	1430 ksi	5 mm/min; ASTM D638
Flexural Strength	154 MPa	22300 psi	1.3 mm/min, 50 mm span; ASTM D790
	155 MPa	22500 psi	ISO 178
Flexural Modulus	8.36 GPa	1210 ksi	1.3 mm/min, 50 mm span; ASTM D790
	8.49 GPa	1230 ksi	2 mm/min; ISO 178
Izod Impact, Notched	0.800 J/cm	1.50 ft-lb/in	ASTM D256

Izod Impact, Unnotched Mechanical Properties	3.74 J/cm Metric	7.01 ft-lb/in English	ASTM D4812 Comments
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)	24.0 kJ/m ²	11.4 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	4.00 J @Temperature 23.0 Â°C	2.95 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	0.45	0.45	ASTM D3702 Modified
Coefficient of Friction, Static	0.48	0.48	ASTM D3702 Modified
K (wear) Factor	6.04 x 10 ⁻⁸ mm ³ /N-M	3.00 x 10 ⁻¹⁰ in ³ - min/ft-lb-hr	Ring; ASTM D3702 Modified
	64.5 x 10 ⁻⁸ mm ³ /N-M	32.0 x 10 ⁻¹⁰ in ³ - min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	29.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	16.1 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	63.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	35.0 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	255 Â°C	491 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	256 Â°C @Thickness 3.20 mm	493 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	232 Â°C	450 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/ Af
	239 Â°C @Thickness 3.20 mm	462 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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