

SABIC Innovative Plastics LNP LUBRICOMP RFL33 PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

LNP* LUBRICOMP* RFL33 is a compound based on Nylon 66 resin containing 15% Glass Fiber, 15% PTFE. 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-RFL33-PA-66.php

Physical Properties	Metric	English	Comments
Density	1.36 g/cc	0.0491 lb/in ³	ISO 1183
	1.37 g/cc	0.0495 lb/in ³	ASTM D792
Moisture Absorption	0.600 %	0.600 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0064 cm/cm	0.0064 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.016 - 0.018 cm/cm	0.016 - 0.018 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.017 cm/cm	0.017 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	118 MPa	17100 psi	ISO 527
	119 MPa	17300 psi	ASTM D638
Tensile Strength, Yield	118 MPa	17100 psi	ISO 527
	119 MPa	17300 psi	ASTM D638
Elongation at Break	3.0 %	3.0 %	ISO 527
	3.1 %	3.1 %	ASTM D638
Elongation at Yield	3.0 %	3.0 %	ISO 527
	3.1 %	3.1 %	ASTM D638
Tensile Modulus	6.44 GPa	934 ksi	1 mm/min; ISO 527

Mechanical Properties	6.89 GPa Metric	999 ksi English	50 mm/min; ASTM D638 Comments
Flexural Strength	179 MPa	26000 psi	ASTM D790
	183 MPa	26500 psi	ISO 178
Flexural Modulus	5.51 GPa	799 ksi	ASTM D790
	5.80 GPa	841 ksi	ISO 178
Izod Impact, Notched	0.640 J/cm	1.20 ft-lb/in	ASTM D256
Izod Impact, Unnotched	5.71 J/cm	10.7 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)	35.0 kJ/m ²	16.7 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	7.00 J	5.16 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	0.39	0.39	ASTM D3702 Modified
Coefficient of Friction, Static	0.45	0.45	ASTM D3702 Modified
K (wear) Factor	38.3 x 10 ⁻⁸ mm ³ /N-M	19.0 x 10 ⁻¹⁰ in ³ - min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	82.8 Âµm/m-Â°C	46.0 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	83.0 Âµm/m-Â°C	46.1 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	39.0 Âµm/m-Â°C	21.7 Âµin/in-Â°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	39.6 Âµm/m-Â°C	22.0 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
Deflection Temperature at 0.46 MPa (66 psi)	260 Â°C	500 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	261 Â°C	502 Â°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	

Thermal Properties T _g at 1.8 MPa (264 psi)	Metric	English	Comments
	247 Â°C	477 Â°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	

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