

SABIC Innovative Plastics LNP LUBRICOMP RFL34 PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

LNP* LUBRICOMP* RFL34 is a compound based on Nylon 66 resin containing 20% 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-RFL34-PA-66.php

Physical Properties	Metric	English	Comments
Density	1.42 g/cc	0.0513 lb/in ³	ASTM D792
	1.42 g/cc	0.0513 lb/in ³	ISO 1183
Moisture Absorption	0.500 %	0.500 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.013 cm/cm	0.013 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.013 cm/cm	0.013 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.019 cm/cm	0.019 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.019 cm/cm	0.019 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	155 MPa	22500 psi	ISO 527
	157 MPa	22800 psi	ASTM D638
Tensile Strength, Yield	155 MPa	22500 psi	ISO 527
	157 MPa	22800 psi	ASTM D638
Elongation at Break	3.2 %	3.2 %	ISO 527
	3.3 %	3.3 %	ASTM D638
Elongation at Yield	3.2 %	3.2 %	ISO 527
	3.3 %	3.3 %	ASTM D638
Tensile Modulus	8.06 GPa	1170 ksi	1 mm/min; ISO 527

Mechanical Properties	8.27 GPa Metric	1200 ksi English	50 mm/min; ASTM D638 Comments
Flexural Strength	220 MPa	31900 psi	ASTM D790
	223 MPa	32300 psi	ISO 178
Flexural Modulus	6.89 GPa	999 ksi	ASTM D790
	7.00 GPa	1020 ksi	ISO 178
Izod Impact, Notched	1.06 J/cm	1.99 ft-lb/in	ASTM D256
Izod Impact, Unnotched	11.74 J/cm	21.99 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	11.0 kJ/m ²	5.23 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	67.0 kJ/m ²	31.9 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	10.0 J	7.38 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	4.00 J	2.95 ft-lb	Multiaxial Impact; ISO 6603
Coefficient of Friction, Dynamic	0.60	0.60	ASTM D3702 Modified
Coefficient of Friction, Static	0.60	0.60	ASTM D3702 Modified
K (wear) Factor	20.1 x 10 ⁻⁸ mm ³ /N-M	10.0 x 10 ⁻¹⁰ in ³ - min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	71.0 Åµm/m-Å°C	39.4 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	72.0 Åµm/m-Å°C	40.0 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
CTE, linear, Transverse to Flow	36.0 Åµm/m-Å°C	20.0 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	36.0 Åµm/m-Å°C	20.0 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
Deflection Temperature at 0.46 MPa (66 psi)	262 Å°C	504 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	262 Å°C @Thickness 3.20 mm	504 Å°F @Thickness 0.126 in	

Thermal Properties (204 psi)	Metric	English	Comments
Temperature at 1.8 MPa	252 Å°C	486 Å°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	

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