

SABIC Innovative Plastics LNP LUBRICOMP RFL36L PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

LNP* LUBRICOMP* RFL36L is a compound based on Nylon 66 resin containing 30% Glass Fiber, 15% PTFE. Added features of this material include: Wear Resistant, Low Extractible.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-RFL36L-PA-66.php

Physical Properties	Metric	English	Comments
Density	1.52 g/cc	0.0549 lb/in ³	ASTM D792
	1.52 g/cc	0.0549 lb/in ³	ISO 1183
Moisture Absorption	0.400 %	0.400 %	50% RH, 24 hrs; ASTM D570
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	0.0053 cm/cm	0.0053 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.013 - 0.015 cm/cm	0.013 - 0.015 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.014 cm/cm	0.014 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	151 MPa	21900 psi	ASTM D638
	152 MPa	22000 psi	ISO 527
Tensile Strength, Yield	151 MPa	21900 psi	ASTM D638
	152 MPa	22000 psi	ISO 527
Elongation at Break	2.8 %	2.8 %	ASTM D638
	2.8 %	2.8 %	ISO 527
Elongation at Yield	2.8 %	2.8 %	ASTM D638
	2.8 %	2.8 %	ISO 527
Tensile Modulus	10.05 GPa	1458 ksi	1 mm/min; ISO 527

Mechanical Properties	10.34 GPa Metric	1500 ksi English	50 mm/min; ASTM D638 Comments
Flexural Strength	213 MPa	30900 psi	ASTM D790
	230 MPa	33400 psi	ISO 178
Flexural Modulus	8.27 GPa	1200 ksi	ASTM D790
	9.30 GPa	1350 ksi	ISO 178
Izod Impact, Notched	0.960 J/cm	1.80 ft-lb/in	ASTM D256
Izod Impact, Unnotched	10.09 J/cm	18.90 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	10.0 kJ/m ²	4.76 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	61.0 kJ/m ²	29.0 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	12.0 J	8.85 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	0.66	0.66	ASTM D3702 Modified
Coefficient of Friction, Static	0.65	0.65	ASTM D3702 Modified
K (wear) Factor	8.06 x 10 ⁻⁸ mm ³ /N-M	4.00 x 10 ⁻¹⁰ in ³ - min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	73.8 Åµm/m-Å°C	41.0 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	74.0 Åµm/m-Å°C	41.1 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
CTE, linear, Transverse to Flow	28.8 Åµm/m-Å°C	16.0 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	29.0 Åµm/m-Å°C	16.1 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)	260 Å°C	500 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	261 Å°C	502 Å°F	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648

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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