

SABIC Innovative Plastics LNP LUBRICOMP RFP36 PA 66 (Asia Pacific)

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

LNP* Lubricomp* RFP36 is a compound based on Nylon 66 resin containing Glass Fiber, PTFE, Silicone. Added features of this material include: Internally Lubricated. This product is also known as Lubricomp* RFL-4536.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-RFP36-PA-66-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Density	1.48 g/cc	0.0535 lb/in ³	ASTM D792
	1.48 g/cc	0.0535 lb/in ³	ISO 1183
Moisture Absorption	0.780 %	0.780 %	50% RH, 24 hrs; ASTM D570
	1.22 %	1.22 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0020 cm/cm	0.0020 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0021 cm/cm	0.0021 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0097 cm/cm	0.0097 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.010 cm/cm	0.010 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	133 MPa	19300 psi	ASTM D638
	135 MPa	19600 psi	ISO 527
Elongation at Break	2.1 %	2.1 %	ASTM D638
	2.2 %	2.2 %	ISO 527
Tensile Modulus	9.80 GPa	1420 ksi	1 mm/min; ISO 527
	10.48 GPa	1520 ksi	50 mm/min; ASTM D638
Flexural Strength	195 MPa	28300 psi	ASTM D790
	207 MPa	30000 psi	ISO 178

Flexural Modulus Mechanical Properties	7.58 GPa Metric	1100 ksi English	ASTM D790 Comments
	9.40 GPa	1360 ksi	ISO 178
Izod Impact, Notched	1.38 J/cm	2.59 ft-lb/in	ASTM D256
Izod Impact, Unnotched	7.79 J/cm	14.6 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	9.00 kJ/m ²	4.28 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	50.0 kJ/m ²	23.8 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	5.00 J	3.69 ft-lb	Multiaxial Impact; ISO 6603
Coefficient of Friction, Dynamic	0.56	0.56	ASTM D3702 Modified
Coefficient of Friction, Static	0.48	0.48	ASTM D3702 Modified
K (wear) Factor	22.2 x 10 ⁻⁸ mm ³ /N-M	11.0 x 10 ⁻¹⁰ in ³ - min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	236 °C	457 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	233 °C	451 °F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Flammability, UL94	HB	HB	UL 94 by SABIC-IP
	@Thickness 1.50 mm	@Thickness 0.0591 in	

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