

SABIC Innovative Plastics LNP LUBRICOMP RFP36XXZ PA 66 (Asia Pacific)

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

LNP Lubricomp RFP36XXZ is a compound based on Nylon 66 resin containing Glass Fiber, PTFE, Silicone. Added features of this material include: internally lubricated. Also known as Lubricomp RFL-4536 LEX

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-RFP36XXZ-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	
Linear Mold Shrinkage, Transverse	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	Type I, 5 mm/min; ASTM D638
	135 MPa	19600 psi	5 mm/min; ISO 527
Elongation at Break	2.1 %	2.1 %	Type I, 5 mm/min; ASTM D638
	2.2 %	2.2 %	5 mm/min; ISO 527
Tensile Modulus	9.40 GPa	1360 ksi	1 mm/min; ISO 527
	10.48 GPa	1520 ksi	50 mm/min; ASTM D638
Flexural Yield Strength	195 MPa	28300 psi	1.3 mm/min, 50 mm span; ASTM D790
	207 MPa	30000 psi	2 mm/min; ISO 178
Flexural Modulus	7.58 GPa	1100 ksi	1.3 mm/min, 50 mm span; ASTM D790
	9.40 GPa	1360 ksi	2 mm/min; ISO 178
Izod Impact, Notched	1.38 J/cm	2.59 ft-lb/in	ASTM D256

Izod Impact, Unnotched Mechanical Properties	7.79 J/cm Metric	14.6 ft-lb/in English	ASTM D4812 Comments
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
Coefficient of Friction, Dynamic	0.56	0.56	ASTM D3702 Modified
Coefficient of Friction, Static	0.46	0.46	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 Â°C	457 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	233 Â°C @Thickness 3.20 mm	451 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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