

SABIC Innovative Plastics LNP LUBRICOMP RFL36U PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

LNP* LUBRICOMP* RFL36U is a compound based on Nylon 66 resin containing 15% PTFE, 30% Glass Fiber. Added features of this grade include: Wear Resistant, UV Stabilized.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-RFL36U-PA-66.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.54 g/cc	1.54 g/cc	ASTM D792
Density	1.54 g/cc	0.0556 lb/in ³	ISO 1183
Moisture Absorption	0.370 %	0.370 %	50% RH, 24 hrs; ASTM D570
	0.580 %	0.580 %	23 ^o C / 50% RH; ISO 62
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	0.010 - 0.030 cm/cm	0.010 - 0.030 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	158 MPa	22900 psi	5 mm/min; ISO 527
	160 MPa	23200 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	160 MPa	23200 psi	Type I, 5 mm/min; ASTM D638
	168 MPa	24400 psi	5 mm/min; ISO 527
Elongation at Break	2.8 %	2.8 %	Type I, 5 mm/min; ASTM D638
	2.8 %	2.8 %	5 mm/min; ISO 527
Elongation at Yield	2.8 %	2.8 %	Type I, 5 mm/min; ASTM D638
	2.8 %	2.8 %	5 mm/min; ISO 527
Tensile Modulus	10.44 GPa	1514 ksi	1 mm/min; ISO 527
	11.66 GPa	1691 ksi	50 mm/min; ASTM D638
Flexural Strength	219 MPa	31800 psi	ISO 178
	233 MPa	33800 psi	1.3 mm/min, 50 mm span; ASTM D790

Mechanical Properties	Metric	English	Comments
Flexural Yield Strength	233 MPa	33600 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	8.89 GPa	1290 ksi	2 mm/min; ISO 178
	9.26 GPa	1340 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.740 J/cm	1.39 ft-lb/in	ASTM D256
Izod Impact, Unnotched	8.80 J/cm	16.5 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	7.00 kJ/m ²	3.33 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	54.0 kJ/m ²	25.7 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	8.00 J @Temperature 23.0 Â°C	5.90 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Impact Test	2.00 J	1.48 ft-lb	Multiaxial Impact; ISO 6603
Coefficient of Friction, Dynamic	0.67	0.67	ASTM D3702 Modified
Coefficient of Friction, Static	0.61	0.61	ASTM D3702 Modified
K (wear) Factor	10.1 x 10 ⁻⁸ mm ³ /N-M	5.00 x 10 ⁻¹⁰ in ³ - min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	34.2 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	19.0 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	78.5 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	43.6 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	258 Â°C	496 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	260 Â°C @Thickness 3.20 mm	500 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	244 Â°C	471 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/ Af
	249 Â°C @Thickness 3.20 mm	480 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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