

SABIC Innovative Plastics LNP LUBRICOMP RFL16 PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

LNP* LUBRICOMP* RFL16 is a compound based on Nylon 66 resin containing 30% Glass Fiber, 5% PTFE. Added features of this material include: Wear Resistant.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-RFL16-PA-66.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.40 g/cc	1.40 g/cc	ASTM D792
Density	1.40 g/cc	0.0506 lb/in ³	ISO 1183
	1.43 g/cc	0.0517 lb/in ³	ASTM D792
Moisture Absorption	0.570 %	0.570 %	50% RH, 24 hrs; ASTM D570
	0.880 %	0.880 %	23 ^o C / 50% RH; ISO 62

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	185 MPa	26800 psi	5 mm/min; ISO 527
	189 MPa	27400 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	188 MPa	27300 psi	5 mm/min; ISO 527
Elongation at Break	2.7 %	2.7 %	Type I, 5 mm/min; ASTM D638
	2.7 %	2.7 %	5 mm/min; ISO 527
Elongation at Yield	2.8 %	2.8 %	5 mm/min; ISO 527
Tensile Modulus	10.63 GPa	1542 ksi	1 mm/min; ISO 527
	11.02 GPa	1598 ksi	50 mm/min; ASTM D638
Flexural Strength	263 MPa	38100 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	8.92 GPa	1290 ksi	1.3 mm/min, 50 mm span; ASTM D790
	8.98 GPa	1300 ksi	2 mm/min; ISO 178
Izod Impact, Notched	1.18 J/cm	2.21 ft-lb/in	ASTM D256
Izod Impact, Unnotched	11.3 J/cm	21.2 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

Mechanical Properties ¹ (ISO)	Metric	English	Comments
Dart Drop, Total Energy	9.00 J @Temperature 23.0 Â°C	6.64 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	0.55	0.55	ASTM D3702 Modified
Coefficient of Friction, Static	0.53	0.53	ASTM D3702 Modified
K (wear) Factor	32.2 x 10 ⁻⁸ mmÂ³/N-M	16.0 x 10 ⁻¹⁰ inÂ³- min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	39.5 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	21.9 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	91.7 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	50.9 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	262 Â°C	504 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	259 Â°C @Thickness 3.20 mm	498 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	251 Â°C	484 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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