

SABIC Innovative Plastics LNP LUBRICOMP RFP38 PA6.6

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

LNP* LUBRICOMP* RFP38 is a compound based on Nylon 66 containing 40% Glass Fiber, 15% PTFE/Silicone. Added feature of this grade is: Wear Resistant.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-RFP38-PA66.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.50 g/cc	1.50 g/cc	ASTM D792
Density	1.60 g/cc	0.0578 lb/in ³	ASTM D792
Moisture Absorption	0.570 %	0.570 %	50% RH, 24 hrs; ASTM D570
	0.860 %	0.860 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0070 - 0.0090 cm/cm	0.0070 - 0.0090 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	173 MPa	25100 psi	Type I, 5 mm/min; ASTM D638
	174 MPa	25200 psi	5 mm/min; ISO 527
Elongation at Break	2.4 %	2.4 %	Type I, 5 mm/min; ASTM D638
	2.5 %	2.5 %	5 mm/min; ISO 527
Tensile Modulus	13.14 GPa	1906 ksi	1 mm/min; ISO 527
	13.38 GPa	1941 ksi	5 mm/min; ASTM D638
Flexural Strength	263 MPa	38100 psi	1.3 mm/min, 50 mm span; ASTM D790
	263 MPa	38100 psi	ISO 178
Flexural Modulus	11.6 GPa	1680 ksi	1.3 mm/min, 50 mm span; ASTM D790
	11.94 GPa	1732 ksi	2 mm/min; ISO 178
Izod Impact, Notched	1.21 J/cm	2.27 ft-lb/in	ASTM D256

Izod Impact, Unnotched Mechanical Properties	9.11 J/cm Metric	17.1 ft-lb/in English	ASTM D4812 Comments
Izod Impact, Notched (ISO)	12.0 kJ/m ²	5.71 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	58.0 kJ/m ²	27.6 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	3.00 J	2.21 ft-lb	Multiaxial Impact; ISO 6603
Coefficient of Friction, Dynamic	0.65	0.65	ASTM D3702 Modified
Coefficient of Friction, Static	0.61	0.61	ASTM D3702 Modified
K (wear) Factor	28.2 x 10 ⁻⁸ mm ³ /N-M	14.0 x 10 ⁻¹⁰ in ³ - min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	25.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	13.9 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	33.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	18.3 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	257 Â°C	495 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	257 Â°C @Thickness 3.20 mm	495 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	243 Â°C	469 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	248 Â°C @Thickness 3.20 mm	478 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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