

SABIC Innovative Plastics LNP LUBRICOMP RFN14 PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

LNP* LUBRICOMP* RFN14 is a compound based on Nylon 66 containing 20% Glass Fiber, 5% MOS2. Added features of this grade include:
Wear Resistant.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-RFN14-PA-66.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.33 g/cc	1.33 g/cc	ASTM D792
Density	1.32 g/cc	0.0477 lb/in ³	ASTM D792
Moisture Absorption	0.670 %	0.670 %	50% RH, 24 hrs; ASTM D570
	0.960 %	0.960 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0030 - 0.0060 cm/cm	0.0030 - 0.0060 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0080 - 0.020 cm/cm	0.0080 - 0.020 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	134 MPa	19400 psi	5 mm/min; ISO 527
	135 MPa	19600 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	1.9 %	1.9 %	Type I, 5 mm/min; ASTM D638
	1.9 %	1.9 %	5 mm/min; ISO 527
Tensile Modulus	8.52 GPa	1240 ksi	1 mm/min; ISO 527
	8.85 GPa	1280 ksi	50 mm/min; ASTM D638
Flexural Strength	204 MPa	29600 psi	ISO 178
	205 MPa	29700 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	7.26 GPa	1050 ksi	2 mm/min; ISO 178
	7.45 GPa	1080 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.470 J/cm	0.881 ft-lb/in	ASTM D256

Izod Impact, Unnotched Mechanical Properties	4.01 J/cm Metric	7.51 ft-lb/in English	ASTM D4812 Comments
Izod Impact, Notched (ISO)	5.00 kJ/m ²	2.38 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	32.0 kJ/m ²	15.2 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	5.00 J @Temperature 23.0 Â°C	3.69 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Impact Test	1.00 J	0.738 ft-lb	Multiaxial Impact; ISO 6603
Coefficient of Friction, Dynamic	0.41	0.41	ASTM D3702 Modified
Coefficient of Friction, Static	0.45	0.45	ASTM D3702 Modified
K (wear) Factor	2.01 x 10 ⁻⁸ mm ³ /N-M	1.00 x 10 ⁻¹⁰ in ³ - min/ft-lb-hr	Ring; ASTM D3702 Modified
	207 x 10 ⁻⁸ mm ³ /N-M	103 x 10 ⁻¹⁰ in ³ - min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	40.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	22.2 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	78.1 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	43.4 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)	245 Â°C	473 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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