

SABIC Innovative Plastics LNP LUBRICOMP RX06480 PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

LNP LUBRICOMP* RX06480 is a compound based on Nylon 66 resin containing 30% Glass Fiber, 15% Lubricants. Added feature of this material is: Wear Resistant.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-RX06480-PA-66.php

Physical Properties	Metric	English	Comments
Density	1.49 g/cc	0.0538 lb/in ³	ISO 1183
	1.50 g/cc	0.0542 lb/in ³	ASTM D792
Moisture Absorption	0.500 %	0.500 %	50% RH, 24 hrs; ASTM D570
	0.740 %	0.740 %	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	0.0070 - 0.0090 cm/cm	0.0070 - 0.0090 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	162 MPa	23500 psi	5 mm/min; ISO 527
	163 MPa	23600 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	162 MPa	23500 psi	5 mm/min; ISO 527
	163 MPa	23600 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	2.1 %	2.1 %	Type I, 5 mm/min; ASTM D638
	2.1 %	2.1 %	5 mm/min; ISO 527
Elongation at Yield	2.1 %	2.1 %	Type I, 5 mm/min; ASTM D638
	2.1 %	2.1 %	5 mm/min; ISO 527
Tensile Modulus	11.21 GPa	1626 ksi	1 mm/min; ISO 527
	12.12 GPa	1758 ksi	50 mm/min; ASTM D638
Flexural Strength	229 MPa	33200 psi	1.3 mm/min, 50 mm span; ASTM D790
	230 MPa	33400 psi	ISO 178

Mechanical Properties	Metric	English	Comments
Flexural Yield Strength	229 MPa	33200 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	9.82 GPa	1420 ksi	1.3 mm/min, 50 mm span; ASTM D790
	9.91 GPa	1440 ksi	2 mm/min; ISO 178
Izod Impact, Notched	0.940 J/cm	1.76 ft-lb/in	ASTM D256
Izod Impact, Unnotched	7.45 J/cm	14.0 ft-lb/in	ASTM D4812
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)	46.0 kJ/m ²	21.9 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	10.0 J @Temperature 23.0 Â°C	7.38 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	0.56	0.56	ASTM D3702 Modified
Coefficient of Friction, Static	0.44	0.44	ASTM D3702 Modified
K (wear) Factor	4.03 x 10 ⁻⁸ mm ³ /N-M	2.00 x 10 ⁻¹⁰ in ³ - min/ft-lb-hr	Ring; ASTM D3702 Modified
	48.3 x 10 ⁻⁸ mm ³ /N-M	24.0 x 10 ⁻¹⁰ in ³ - min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	27.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	15.0 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	57.6 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	32.0 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	260 Â°C	500 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)	247 Â°C	477 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	252 Â°C @Thickness 3.20 mm	486 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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