

SABIC Innovative Plastics LNP LUBRICOMP RCP36 PA 66 (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

LNP LUBRICOMP* RCP36 is a compound based on Nylon 66 resin containing Carbon Fiber, Silicone, PTFE. Added features of this material include: Electrically Conductive.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-RCP36-PA-66-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Density	1.34 g/cc	0.0484 lb/in ³	ASTM D792
	1.34 g/cc	0.0484 lb/in ³	ISO 1183
Moisture Absorption	0.930 %	0.930 %	50% RH, 24 hrs; ASTM D570
	1.35 %	1.35 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0015 cm/cm	0.0015 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.0020 cm/cm	0.0020 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0040 cm/cm	0.0040 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0043 cm/cm	0.0043 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	201 MPa	29200 psi	ASTM D638
	228 MPa	33100 psi	ISO 527
Elongation at Break	1.4 %	1.4 %	ASTM D638
	2.0 %	2.0 %	ISO 527
Tensile Modulus	23.1 GPa	3350 ksi	1 mm/min; ISO 527
	29.5 GPa	4280 ksi	50 mm/min; ASTM D638
Flexural Strength	333 MPa	48300 psi	ASTM D790
	354 MPa	51300 psi	ISO 178

Mechanical Properties	Metric	English	Comments
Flexural Modulus	16.4 GPa	2360 ksi	ASTM D790
	21.3 GPa	3090 ksi	ISO 178
Izod Impact, Notched	0.960 J/cm	1.80 ft-lb/in	ASTM D256
Izod Impact, Unnotched	9.45 J/cm	17.7 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
Izod Impact, Unnotched (ISO)	65.0 kJ/m ²	30.9 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	9.00 J	6.64 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	2.00 J	1.48 ft-lb	Multiaxial Impact; ISO 6603
Coefficient of Friction, Dynamic	0.25	0.25	ASTM D3702 Modified
Coefficient of Friction, Static	0.22	0.22	ASTM D3702 Modified
K (wear) Factor	12.1 x 10 ⁻⁸ mm ³ /N-M	6.00 x 10 ⁻¹⁰ in ³ - min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	254 Â°C @Thickness 3.20 mm	489 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	231 Â°C	448 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	244 Â°C @Thickness 3.20 mm	471 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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