

SABIC Innovative Plastics LNP LUBRICOMP REL22 PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

LNP* LUBRICOMP* REL22 is a compound based on Nylon 66 resin containing 10% Carbon Fiber, 10% PTFE. Added features of this material include: Wear Resistant, Electrically Conductive.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-REL22-PA-66.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.25 g/cc	1.25 g/cc	ASTM D792
Density	1.246 g/cc	0.04501 lb/in ³	ASTM D792
Moisture Absorption	0.810 %	0.810 %	50% RH, 24 hrs; ASTM D570
	1.20 %	1.20 %	23Â°C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0030 - 0.0050 cm/cm @Time 86400 sec	0.0030 - 0.0050 in/in @Time 24.0 hour	ASTM D955
Linear Mold Shrinkage, Transverse	0.010 - 0.030 cm/cm @Time 86400 sec	0.010 - 0.030 in/in @Time 24.0 hour	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	170 MPa	24700 psi	5 mm/min; ISO 527
	173 MPa	25100 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	2.6 %	2.6 %	5 mm/min; ISO 527
	2.8 %	2.8 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	9.96 GPa	1440 ksi	1 mm/min; ISO 527
	10.5 GPa	1520 ksi	5 mm/min; ASTM D638
Flexural Strength	230 MPa	33400 psi	ISO 178
	241 MPa	35000 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	7.92 GPa	1150 ksi	2 mm/min; ISO 178
	8.26 GPa	1200 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.500 J/cm	0.937 ft-lb/in	ASTM D256

Izod Impact, Unnotched Mechanical Properties	5.14 J/cm Metric	9.63 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	6.00 J @Temperature 23.0 Â°C	4.43 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	0.49	0.49	ASTM D3702 Modified
Coefficient of Friction, Static	0.49	0.49	ASTM D3702 Modified
K (wear) Factor	72.5 x 10 ⁻⁸ mm ³ /N-M	36.0 x 10 ⁻¹⁰ in ³ - min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	38.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	21.1 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	76.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	42.2 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
	261 Â°C @Thickness 3.20 mm	502 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	248 Â°C	478 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	253 Â°C @Thickness 3.20 mm	487 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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