

SABIC Innovative Plastics LNP LUBRICOMP RX05050 PA 66 (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

LNP* Lubricomp* RX05050 is a compound based on Nylon 66 resin containing PTFE, Aramid Fiber, Carbon Fiber. 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-RX05050-PA-66-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Density	1.27 g/cc	0.0459 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.0050 - 0.0090 cm/cm	0.0050 - 0.0090 in/in	on Tensile Bar; SABIC Method

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	129 MPa	18700 psi	5 mm/min; ISO 527
Elongation at Break	3.3 %	3.3 %	5 mm/min; ISO 527
Tensile Modulus	8.70 GPa	1260 ksi	1 mm/min; ISO 527
Flexural Yield Strength	187 MPa	27100 psi	2 mm/min; ISO 178
Flexural Modulus	7.20 GPa	1040 ksi	2 mm/min; ISO 178
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)	35.0 kJ/m ²	16.7 ft-lb/in ²	80*10*4; ISO 180/1U

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	24.0 $\mu\text{m/m}\cdot\text{Å}^\circ\text{C}$	13.3 $\mu\text{in/in}\cdot\text{Å}^\circ\text{F}$	ISO 11359-2
	@Temperature 23.0 - 60.0 $\text{Å}^\circ\text{C}$	@Temperature 73.4 - 140 $\text{Å}^\circ\text{F}$	
CTE, linear, Transverse to Flow	88.0 $\mu\text{m/m}\cdot\text{Å}^\circ\text{C}$	48.9 $\mu\text{in/in}\cdot\text{Å}^\circ\text{F}$	ISO 11359-2
	@Temperature 23.0 - 60.0 $\text{Å}^\circ\text{C}$	@Temperature 73.4 - 140 $\text{Å}^\circ\text{F}$	
Deflection Temperature at 0.46 MPa (66 psi)	258 $\text{Å}^\circ\text{C}$	496 $\text{Å}^\circ\text{F}$	Flatw 80*10*4 sp=64mm; ISO 75/Bf
Deflection Temperature at 1.8 MPa (264 psi)	238 $\text{Å}^\circ\text{C}$	460 $\text{Å}^\circ\text{F}$	Flatw 80*10*4 sp=64mm; ISO 75/Af

Electrical Properties	Metric	English	Comments
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Surface Resistance
Electrical Properties

1000 ohm - 1e+05
Metric

1000 ohm - 1e+05
English

ASTM D257
Comments

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