

SABIC Innovative Plastics LNP LUBRICOMP RCL36S PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

LNP LUBRICOMP* RCL36S is a compound based on Nylon 66 resin containing 30% Carbon Fiber, 15% PTFE. Added features of this material include: Electrically Conductive, Wear Resistant, Heat Stabilized.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-RCL36S-PA-66.php

Physical Properties	Metric	English	Comments
Density	1.38 g/cc	0.0499 lb/in ³	ISO 1183
	1.38 g/cc	0.0499 lb/in ³	ASTM D792
Moisture Absorption	0.530 %	0.530 %	50% RH, 24 hrs; ASTM D570
	0.840 %	0.840 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0010 cm/cm	0.0010 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0011 cm/cm	0.0011 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0070 cm/cm	0.0070 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0072 cm/cm	0.0072 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	182 MPa	26400 psi	ASTM D638
	245 MPa	35500 psi	ISO 527
Elongation at Break	0.90 %	0.90 %	ASTM D638
	1.8 %	1.8 %	ISO 527
Tensile Modulus	22.6 GPa	3280 ksi	1 mm/min; ISO 527
	32.4 GPa	4700 ksi	50 mm/min; ASTM D638
Flexural Strength	372 MPa	54000 psi	ASTM D790
	395 MPa	57300 psi	ISO 178

Flexural Modulus Mechanical Properties	18.4 GPa Metric	2670 ksi English	ASTM D790 Comments
	22.7 GPa	3290 ksi	ISO 178
Izod Impact, Notched	1.01 J/cm	1.89 ft-lb/in	ASTM D256
Izod Impact, Unnotched	10.46 J/cm	19.60 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)	68.0 kJ/m ²	32.4 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	10.0 J	7.38 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	3.00 J	2.21 ft-lb	Multiaxial Impact; ISO 6603
Coefficient of Friction, Dynamic	0.36	0.36	ASTM D3702 Modified
Coefficient of Friction, Static	0.30	0.30	ASTM D3702 Modified
K (wear) Factor	30.2 x 10 ⁻⁸ mm ³ /N-M	15.0 x 10 ⁻¹⁰ in ³ - min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	>= 240 Â°C	>= 464 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	255 Â°C	491 Â°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	

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