

SABIC Innovative Plastics LNP LUBRICOMP RCL34 PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

LNP* LUBRICOMP* RCL34 is a compound based on Nylon 66 containing 20% Carbon Fiber, 15% PTFE. Added features of this grade includes: Wear Resistant, Electrically Conductive.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-RCL34-PA-66.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.33 g/cc	1.33 g/cc	ASTM D792
Density	1.33 g/cc	0.0480 lb/in ³	ASTM D792
Moisture Absorption	0.670 %	0.670 %	50% RH, 24 hrs; ASTM D570
	0.950 %	0.950 %	23Â°C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0010 - 0.0030 cm/cm @Time 86400 sec	0.0010 - 0.0030 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	211 MPa	30600 psi	5 mm/min; ISO 527
	215 MPa	31200 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	2.4 %	2.4 %	5 mm/min; ISO 527
	2.6 %	2.6 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	16.33 GPa	2368 ksi	1 mm/min; ISO 527
	16.54 GPa	2399 ksi	5 mm/min; ASTM D638
Flexural Strength	296 MPa	42900 psi	ISO 178
	312 MPa	45300 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	12.83 GPa	1861 ksi	2 mm/min; ISO 178
	13.2 GPa	1910 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	1.00 J/cm	1.87 ft-lb/in	ASTM D256

Izod Impact, Unnotched Mechanical Properties	7.93 J/cm Metric	14.9 ft-lb/in English	ASTM D4812 Comments
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)	52.0 kJ/m ²	24.7 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	8.00 J @Temperature 23.0 Â°C	5.90 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Impact Test	2.00 J	1.48 ft-lb	Multiaxial Impact; ISO 6603
Coefficient of Friction, Dynamic	0.40	0.40	ASTM D3702 Modified
Coefficient of Friction, Static	0.34	0.34	ASTM D3702 Modified
K (wear) Factor	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	10.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	5.56 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	61.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	33.9 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	261 Â°C	502 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	262 Â°C @Thickness 3.20 mm	504 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	251 Â°C	484 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	255 Â°C @Thickness 3.20 mm	491 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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