

SABIC Innovative Plastics LNP LUBRICOMP RFL46ES PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

LNP* LUBRICOMP* RFL46ES is a compound based on Nylon 6/6 containing 30% Glass Fiber, 20% PTFE. Added features of this grade include: Wear Resistant, Heat Stabilized, Easy Molding.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-RFL46ES-PA-66.php

Physical Properties	Metric	English	Comments
Density	1.55 g/cc	0.0560 lb/in ³	ASTM D792
Moisture Absorption	0.430 %	0.430 %	50% RH, 24 hrs; ASTM D570
	0.820 %	0.820 %	23°C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0020 - 0.0050 cm/cm	0.0020 - 0.0050 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0090 - 0.030 cm/cm	0.0090 - 0.030 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	145 MPa	21000 psi	5 mm/min; ISO 527
	146 MPa	21200 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	2.6 %	2.6 %	Type I, 5 mm/min; ASTM D638
	2.6 %	2.6 %	5 mm/min; ISO 527
Tensile Modulus	10.42 GPa	1511 ksi	1 mm/min; ISO 527
	10.88 GPa	1578 ksi	5 mm/min; ASTM D638
Flexural Strength	221 MPa	32100 psi	ISO 178
	223 MPa	32300 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	9.26 GPa	1340 ksi	2 mm/min; ISO 178
	9.28 GPa	1350 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.970 J/cm	1.82 ft-lb/in	ASTM D256
Izod Impact, Unnotched	9.39 J/cm	17.6 ft-lb/in	ASTM D4812

Izod Impact Notched (ISO) Mechanical Properties	9.00 kJ/m ² Metric	4.28 ft-lb/in ² English	80*10*4- ISO 180/1A Comments
Izod Impact, Unnotched (ISO)	56.0 kJ/m ²	26.6 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	0.59	0.59	ASTM D3702 Modified
Coefficient of Friction, Static	0.64	0.64	ASTM D3702 Modified
K (wear) Factor	24.2 x 10 ⁻⁸ mm ³ /N-M	12.0 x 10 ⁻¹⁰ in ³ - min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	31.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	17.2 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	84.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	46.7 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	251 Â°C	484 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	251 Â°C @Thickness 3.20 mm	484 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	232 Â°C	450 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	233 Â°C @Thickness 3.20 mm	451 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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