

SABIC Innovative Plastics LNP LUBRICOMP RFL36XXZ PA 66 (Asia Pacific)

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

LNP Lubricomp is a compound based on PA66 resin containing glass fiber, PTFE. It is an internally lubricated compound that provide excellent chemical resistance, strength and wear/friction properties. Also known as Lubricomp RFL-4036

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-RFL36XXZ-PA-66-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Density	1.51 g/cc	0.0546 lb/in ³	ASTM D792
	1.51 g/cc	0.0546 lb/in ³	ISO 1183
Moisture Absorption	0.620 %	0.620 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.0050 cm/cm	0.0050 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.011 cm/cm	0.011 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	138 MPa	20000 psi	5 mm/min; ISO 527
	139 MPa	20200 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	2.1 %	2.1 %	Type I, 5 mm/min; ASTM D638
	2.1 %	2.1 %	5 mm/min; ISO 527
Tensile Modulus	9.80 GPa	1420 ksi	1 mm/min; ISO 527
	11.23 GPa	1629 ksi	50 mm/min; ASTM D638
Flexural Strength	236 MPa	34200 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Yield Strength	211 MPa	30600 psi	2 mm/min; ISO 178
Flexural Modulus	9.70 GPa	1410 ksi	2 mm/min; ISO 178
	9.75 GPa	1410 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	1.06 J/cm	1.99 ft-lb/in	ASTM D256
Izod Impact, Unnotched	9.07 J/cm	17.0 ft-lb/in	ASTM D4812

Izod Impact Notched (ISO) Mechanical Properties	10.0 kJ/m ² Metric	4.75 ft-lb/in ² English	80*10*4- ISO 180/1A Comments
Izod Impact, Unnotched (ISO)	51.0 kJ/m ²	24.3 ft-lb/in ²	80*10*4; ISO 180/1U
Coefficient of Friction, Dynamic	0.58	0.58	ASTM D3702 Modified
Coefficient of Friction, Static	0.49	0.49	ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	37.8 Åµm/m-Å°C	21.0 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	37.8 Åµm/m-Å°C	21.0 Åµin/in-Å°F	ISO 11359-2
	@Temperature 23.0 - 60.0 Å°C	@Temperature 73.4 - 140 Å°F	
CTE, linear, Transverse to Flow	55.0 Åµm/m-Å°C	30.6 Åµin/in-Å°F	ISO 11359-2
	@Temperature 23.0 - 60.0 Å°C	@Temperature 73.4 - 140 Å°F	
	55.8 Åµm/m-Å°C	31.0 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
Deflection Temperature at 1.8 MPa (264 psi)	248 Å°C	478 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	248 Å°C	478 Å°F	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648

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