

SABIC Innovative Plastics LNP LUBRICOMP IFL34 PA 6/12

Category : Polymer , Thermoplastic , Nylon , Nylon 612

Material Notes:

LNP* LUBRICOMP* IFL34 is a compound based on Nylon 6/12 resin containing 20% Glass Fiber, 15% PTFE. Added features of this material include: Wear Resistant.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-IFL34-PA-612.php

Physical Properties	Metric	English	Comments
Density	1.35 g/cc	0.0488 lb/in ³	ASTM D792
	1.35 g/cc	0.0488 lb/in ³	ISO 1183
Moisture Absorption	0.100 %	0.100 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.0030 - 0.0050 cm/cm	0.0030 - 0.0050 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0041 cm/cm	0.0041 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.010 - 0.012 cm/cm	0.010 - 0.012 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.011 cm/cm	0.011 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	115 MPa	16700 psi	ASTM D638
	121 MPa	17500 psi	ISO 527
Tensile Strength, Yield	115 MPa	16700 psi	ASTM D638
	121 MPa	17500 psi	ISO 527
Elongation at Break	3.0 %	3.0 %	ISO 527
	3.1 %	3.1 %	ASTM D638
Elongation at Yield	3.0 %	3.0 %	ISO 527
	3.1 %	3.1 %	ASTM D638
Tensile Modulus	6.89 GPa	999 ksi	50 mm/min; ASTM D638

Mechanical Properties	7.10 GPa Metric	1030 ksi English	1 mm/min* ISO 527 Comments
Flexural Strength	172 MPa	24900 psi	ASTM D790
	176 MPa	25500 psi	ISO 178
Flexural Modulus	5.51 GPa	799 ksi	ASTM D790
	6.10 GPa	885 ksi	ISO 178
Izod Impact, Notched	0.960 J/cm	1.80 ft-lb/in	ASTM D256
Izod Impact, Unnotched	9.29 J/cm	17.4 ft-lb/in	ASTM D4812
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)	53.0 kJ/m ²	25.2 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	8.00 J	5.90 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	0.46	0.46	ASTM D3702 Modified
Coefficient of Friction, Static	0.47	0.47	ASTM D3702 Modified
K (wear) Factor	36.3 x 10 ⁻⁸ mm ³ /N-M	18.0 x 10 ⁻¹⁰ in ³ - min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	99.0 Åµm/m-Å°C	55.0 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	99.0 Åµm/m-Å°C	55.0 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
CTE, linear, Transverse to Flow	39.0 Åµm/m-Å°C	21.7 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	39.6 Åµm/m-Å°C	22.0 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
Deflection Temperature at 0.46 MPa (66 psi)	212 Å°C	414 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	212 Å°C	414 Å°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	

Thermal Properties Temperature at 1.8 MPa (264 psi)	Metric	English	Comments
	197 Â°C	387 Â°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	

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