

SABIC Innovative Plastics LNP LUBRICOMP IFL36L PA6.12

Category : Polymer , Thermoplastic , Nylon , Nylon 612

Material Notes:

LNP* LUBRICOMP* IFL36L is a compound based on Nylon 6/12 containing 30% Glass Fiber, 15% PTFE. Added features of this grade include:
Low Extractable, Wear Resistant.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-IFL36L-PA612.php

Physical Properties	Metric	English	Comments
Density	1.43 g/cc	0.0517 lb/in ³	ISO 1183
	1.44 g/cc	0.0520 lb/in ³	ASTM D792
Moisture Absorption	0.130 %	0.130 %	50% RH, 24 hrs; ASTM D570
	0.180 %	0.180 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0040 - 0.0060 cm/cm	0.0040 - 0.0060 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.010 - 0.030 cm/cm	0.010 - 0.030 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	124 MPa	18000 psi	5 mm/min; ISO 527
	127 MPa	18400 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	2.6 %	2.6 %	Type I, 5 mm/min; ASTM D638
	2.8 %	2.8 %	5 mm/min; ISO 527
Tensile Modulus	8.69 GPa	1260 ksi	1 mm/min; ISO 527
	9.40 GPa	1360 ksi	50 mm/min; ASTM D638
Flexural Strength	189 MPa	27400 psi	ISO 178
	192 MPa	27800 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Yield Strength	193 MPa	28000 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	7.41 GPa	1070 ksi	2 mm/min; ISO 178
	7.91 GPa	1150 ksi	1.3 mm/min, 50 mm span; ASTM D790

Izod Impact, Notched Mechanical Properties	1.03 J/cm Metric	1.93 ft-lb/in English	ASTM D256 Comments
Izod Impact, Unnotched	8.49 J/cm	15.9 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	10.0 kJ/mÂ²	4.76 ft-lb/inÂ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	48.0 kJ/mÂ²	22.8 ft-lb/inÂ²	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	0.61	0.61	ASTM D3702 Modified
Coefficient of Friction, Static	0.59	0.59	ASTM D3702 Modified
K (wear) Factor	6.04 x 10 ⁻⁸ mmÂ³/N-M	3.00 x 10 ⁻¹⁰ inÂ³- 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	98.5 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	54.7 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	211 Â°C	412 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	213 Â°C @Thickness 3.20 mm	415 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	195 Â°C	383 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	197 Â°C @Thickness 3.20 mm	387 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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