

SABIC Innovative Plastics LNP LUBRICOMP IFP36 PA6.12

Category : Polymer , Thermoplastic , Nylon , Nylon 612

Material Notes:

LNP* LUBRICOMP* IFP36 is a Nylon 6/12 base resin containing 30% Glass Fiber, 15% PTFE/Silicone. Added features of this grade include:
Wear Resistant.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-IFP36-PA612.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.45 g/cc	1.45 g/cc	ASTM D792
Density	1.44 g/cc	0.0520 lb/in ³	ISO 1183
Moisture Absorption	0.190 %	0.190 %	50% RH, 24 hrs; ASTM D570
	0.280 %	0.280 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0010 - 0.0030 cm/cm	0.0010 - 0.0030 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	145 MPa	21000 psi	Type I, 5 mm/min; ASTM D638
	146 MPa	21200 psi	5 mm/min; ISO 527
Tensile Strength, Yield	145 MPa	21000 psi	Type I, 5 mm/min; ASTM D638
	146 MPa	21200 psi	5 mm/min; ISO 527
Elongation at Break	2.7 %	2.7 %	Type I, 5 mm/min; ASTM D638
	2.7 %	2.7 %	5 mm/min; ISO 527
Elongation at Yield	2.7 %	2.7 %	Type I, 5 mm/min; ASTM D638
	2.7 %	2.7 %	5 mm/min; ISO 527
Tensile Modulus	9.69 GPa	1410 ksi	50 mm/min; ASTM D638
	9.72 GPa	1410 ksi	1 mm/min; ISO 527
Flexural Strength	225 MPa	32600 psi	ISO 178
	229 MPa	33200 psi	1.3 mm/min, 50 mm span; ASTM D790

Mechanical Properties	Metric	English	Comments
Flexural Yield Strength	229 MPa	33200 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	8.87 GPa	1290 ksi	1.3 mm/min, 50 mm span; ASTM D790
	8.94 GPa	1300 ksi	2 mm/min; ISO 178
Izod Impact, Notched	1.25 J/cm	2.34 ft-lb/in	ASTM D256
Izod Impact, Unnotched	10.4 J/cm	19.5 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	12.0 kJ/m ²	5.71 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	60.0 kJ/m ²	28.6 ft-lb/in ²	80*10*4; ISO 180/1U
Impact Test	2.00 J	1.48 ft-lb	Multiaxial Impact; ISO 6603
Coefficient of Friction, Dynamic	0.62	0.62	ASTM D3702 Modified
Coefficient of Friction, Static	0.52	0.52	ASTM D3702 Modified
K (wear) Factor	2.01 x 10 ⁻⁸ mm ³ /N-M	1.00 x 10 ⁻¹⁰ in ³ -min/ft-lb-hr	Ring; ASTM D3702 Modified
	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	14.0 Åµm/m-Å°C	7.78 Åµin/in-Å°F	ASTM D696
	@Temperature -30.0 - 30.0 Å°C	@Temperature -22.0 - 86.0 Å°F	
CTE, linear, Transverse to Flow	75.0 Åµm/m-Å°C	41.7 Åµin/in-Å°F	ASTM D696
	@Temperature -30.0 - 30.0 Å°C	@Temperature -22.0 - 86.0 Å°F	
Deflection Temperature at 0.46 MPa (66 psi)	214 Å°C	417 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	214 Å°C	417 Å°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	197 Å°C	387 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	200 Å°C	392 Å°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215, Fengxian District, Shanghai City, China