

SABIC Innovative Plastics LNP LUBRICOMP IBP34 PA6.12

Category : Polymer , Thermoplastic , Nylon , Nylon 612

Material Notes:

LNP* LUBRICOMP* IBP34 is a compound based on Nylon 6/12 containing 20% Glass Bead, 15% PTFE/Silicone. Added features include:
Wear Resistant.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-IBP34-PA612.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.32 g/cc	1.32 g/cc	ASTM D792
Density	1.32 g/cc	0.0477 lb/in ³	ASTM D792
Moisture Absorption	0.220 %	0.220 %	50% RH, 24 hrs; ASTM D570
	0.260 %	0.260 %	23°C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	>= 0.020 cm/cm	>= 0.020 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.020 - 0.040 cm/cm	0.020 - 0.040 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	44.0 MPa	6380 psi	5 mm/min; ISO 527
	45.0 MPa	6530 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	3.7 %	3.7 %	5 mm/min; ISO 527
	3.9 %	3.9 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	3.5 %	3.5 %	5 mm/min; ISO 527
	3.6 %	3.6 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	2.67 GPa	387 ksi	1 mm/min; ISO 527
	2.74 GPa	397 ksi	50 mm/min; ASTM D638
Flexural Strength	73.0 MPa	10600 psi	ISO 178
	76.0 MPa	11000 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	2.61 GPa	379 ksi	1.3 mm/min, 50 mm span; ASTM D790

Mechanical Properties	2.65 GPa Metric	384 ksi English	2 mm/min: ISO 178 Comments
Izod Impact, Notched	0.280 J/cm	0.525 ft-lb/in	ASTM D256
Izod Impact, Unnotched	3.29 J/cm	6.16 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	2.00 kJ/m ²	0.952 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	18.0 kJ/m ²	8.57 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	4.00 J @Temperature 23.0 Â°C	2.95 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Impact Test	1.00 J	0.738 ft-lb	Multiaxial Impact; ISO 6603
Coefficient of Friction, Dynamic	0.56	0.56	ASTM D3702 Modified
Coefficient of Friction, Static	0.59	0.59	ASTM D3702 Modified
K (wear) Factor	26.2 x 10 ⁻⁸ mm ³ /N-M	13.0 x 10 ⁻¹⁰ in ³ - min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	88.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	48.9 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	87.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	48.3 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	159 Â°C	318 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	170 Â°C @Thickness 3.20 mm	338 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	70.0 Â°C	158 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	106 Â°C @Thickness 3.20 mm	223 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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