

SABIC Innovative Plastics LNP LUBRICOMP IL004 PA 6/12

Category : Polymer , Thermoplastic , Nylon , Nylon 612

Material Notes:

LNP* LUBRICOMP* IL004 is a compound based on Nylon 6/12 resin containing 20% 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-IL004-PA-612.php

Physical Properties	Metric	English	Comments
Density	1.18 g/cc	0.0426 lb/in ³	ASTM D792
	1.18 g/cc	0.0426 lb/in ³	ISO 1183
Moisture Absorption	0.100 %	0.100 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.017 - 0.019 cm/cm	0.017 - 0.019 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.018 cm/cm	0.018 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.017 - 0.019 cm/cm	0.017 - 0.019 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.018 cm/cm	0.018 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	47.0 MPa	6820 psi	ASTM D638
	49.0 MPa	7110 psi	ISO 527
Tensile Strength, Yield	47.0 MPa	6820 psi	ASTM D638
	49.0 MPa	7110 psi	ISO 527
Elongation at Break	14.3 %	14.3 %	ASTM D638
	15.6 %	15.6 %	ISO 527
Elongation at Yield	13.6 %	13.6 %	ASTM D638
	15.2 %	15.2 %	ISO 527
Tensile Modulus	2.06 GPa	299 ksi	50 mm/min; ASTM D638

Mechanical Properties	2.19 GPa Metric	318 ksi English	1 mm/min: ISO 527 Comments
Flexural Strength	65.0 MPa	9430 psi	ISO 178
Flexural Modulus	2.00 GPa	290 ksi	ISO 178
	2.06 GPa	299 ksi	ASTM D790
Izod Impact, Notched	0.370 J/cm	0.693 ft-lb/in	ASTM D256
Izod Impact, Unnotched	5.71 J/cm	10.7 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	4.00 kJ/m ²	1.90 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	39.0 kJ/m ²	18.6 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	3.00 J	2.21 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Coefficient of Friction, Dynamic	0.24	0.24	ASTM D3702 Modified
Coefficient of Friction, Static	0.27	0.27	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
Deflection Temperature at 0.46 MPa (66 psi)	155 °C	311 °F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	157 °C	315 °F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	64.0 °C	147 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	61.0 °C	142 °F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	

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