

SABIC Innovative Plastics LNP LUBRICOMP PFL36 PA 6 (Asia Pacific)

Category : Polymer , Thermoplastic , Nylon , Nylon 6

Material Notes:

LNP* Lubricomp* PFL36 is a compound based on Nylon 6 resin containing Glass Fiber, PTFE. Added features of this material include:
Internally Lubricated.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-PFL36-PA-6-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Density	1.51 g/cc	0.0546 lb/in ³	ISO 1183

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	109 MPa	15800 psi	ASTM D638
	113 MPa	16400 psi	ISO 527
Tensile Strength, Yield	110 MPa	16000 psi	ASTM D638
	113 MPa	16400 psi	ISO 527
Elongation at Break	4.4 %	4.4 %	ISO 527
	6.7 %	6.7 %	ASTM D638
Elongation at Yield	4.1 %	4.1 %	ISO 527
	5.8 %	5.8 %	ASTM D638
Tensile Modulus	7.88 GPa	1140 ksi	1 mm/min; ISO 527
	8.27 GPa	1200 ksi	50 mm/min; ASTM D638
Flexural Strength	172 MPa	24900 psi	ISO 178
Flexural Modulus	5.51 GPa	799 ksi	ASTM D790
	7.00 GPa	1020 ksi	ISO 178
Izod Impact, Notched	1.49 J/cm	2.79 ft-lb/in	ASTM D256
Izod Impact, Unnotched	10.89 J/cm	20.40 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	16.0 kJ/m ²	7.61 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	79.0 kJ/m ²	37.6 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	19.0 J	14.0 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	216 Â°C	421 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	216 Â°C @Thickness 3.20 mm	421 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	202 Â°C	396 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	201 Â°C @Thickness 3.20 mm	394 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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