

SABIC Innovative Plastics LNP LUBRICOMP UFL36SXP PPA

Category : Polymer , Thermoplastic , Polyphthalamide (PPA)

Material Notes:

LNP LUBRICOMP* UFL36SXP is a compound based on Polyphthalamide resin containing 30% Glass Fiber, 15% PTFE. Added features of this material include: Heat Stabilized, Wear Resistant.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-UFL36SXP-PPA.php

Physical Properties	Metric	English	Comments
Density	1.55 g/cc	0.0560 lb/in ³	ASTM D792
	1.55 g/cc	0.0560 lb/in ³	ISO 1183
Moisture Absorption	0.330 %	0.330 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.0017 cm/cm	0.0017 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0020 cm/cm	0.0020 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0080 cm/cm	0.0080 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0082 cm/cm	0.0082 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	196 MPa	28400 psi	ASTM D638
	196 MPa	28400 psi	ISO 527
Elongation at Break	2.5 %	2.5 %	ASTM D638
	2.5 %	2.5 %	ISO 527
Tensile Modulus	9.88 GPa	1430 ksi	1 mm/min; ISO 527
	12.41 GPa	1800 ksi	50 mm/min; ASTM D638
Flexural Strength	280 MPa	40600 psi	ASTM D790
	285 MPa	41300 psi	ISO 178
Flexural Modulus	10.82 GPa	1569 ksi	ASTM D790

Mechanical Properties	11.22 GPa Metric	1627 ksi English	ISO 178 Comments
Izod Impact, Notched	1.17 J/cm	2.19 ft-lb/in	ASTM D256
Izod Impact, Unnotched	10.35 J/cm	19.39 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)	70.0 kJ/m ²	33.3 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	6.00 J	4.43 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	2.00 J	1.48 ft-lb	Multiaxial Impact; ISO 6603
Coefficient of Friction, Dynamic	0.59	0.59	ASTM D3702 Modified
Coefficient of Friction, Static	0.52	0.52	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 1.8 MPa (264 psi)	263 °C	505 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	259 °C @Thickness 3.20 mm	498 °F @Thickness 0.126 in	unannealed; ASTM D648

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