

SABIC Innovative Plastics LNP LUBRICOMP DFL36XXP PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP* Lubricomp* DFL36XXP is a compound based on Polycarbonate resin containing 30% Glass Fiber, 15% 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-DFL36XXP-PC.php

Physical Properties	Metric	English	Comments
Density	1.54 g/cc	0.0556 lb/in ³	ASTM D792
Linear Mold Shrinkage, Transverse	0.0050 cm/cm	0.0050 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	118 MPa	17100 psi	ISO 527
	123 MPa	17800 psi	ASTM D638
Tensile Strength, Yield	118 MPa	17100 psi	ISO 527
	123 MPa	17800 psi	ASTM D638
Elongation at Break	2.7 %	2.7 %	ISO 527
	2.8 %	2.8 %	ASTM D638
Elongation at Yield	2.6 %	2.6 %	ISO 527
	2.6 %	2.6 %	ASTM D638
Tensile Modulus	9.08 GPa	1320 ksi	1 mm/min; ISO 527
	9.58 GPa	1390 ksi	50 mm/min; ASTM D638
Flexural Strength	185 MPa	26800 psi	ISO 178
	186 MPa	27000 psi	ASTM D790
Flexural Modulus	8.34 GPa	1210 ksi	ISO 178
	8.61 GPa	1250 ksi	ASTM D790
Izod Impact, Notched	1.97 J/cm	3.69 ft-lb/in	ASTM D256
Izod Impact, Unnotched	9.23 J/cm	17.3 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	18.0 kJ/m ²	8.57 ft-lb/in ²	80*10*4; ISO 180/1A

Mechanical Properties	Metric	English	Comments
ISO Impact, Unnotched (ISO)	45.0 kJ/m ²	70.0 ft-lb/in ²	50-100, ISO 180/1U
Coefficient of Friction, Dynamic	0.58	0.58	ASTM D3702 Modified
Coefficient of Friction, Static	0.72	0.72	ASTM D3702 Modified
K (wear) Factor	169 x 10 ⁻⁸ mm ³ /N-M	84.0 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)	143 °C @Thickness 3.20 mm	289 °F @Thickness 0.126 in	unannealed; ASTM D648

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