

SABIC Innovative Plastics LNP LUBRICOMP DFL36P PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP* Lubricomp* DFL36P is a compound based on Polycarbonate containing 30% Glass Fiber 15% PTFE. Added features include:
Exceptional Processing. Internally Lubricated.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-DFL36P-PC.php

Physical Properties	Metric	English	Comments
Density	1.56 g/cc	0.0564 lb/in ³	ISO 1183
	1.56 g/cc	0.0564 lb/in ³	ASTM D792
Moisture Absorption	0.0700 %	0.0700 %	50% RH, 24 hrs; ASTM D570
	0.110 %	0.110 %	23°C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0020 - 0.0040 cm/cm	0.0020 - 0.0040 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0030 - 0.0050 cm/cm	0.0030 - 0.0050 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	112 MPa	16200 psi	5 mm/min; ISO 527
	113 MPa	16400 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	2.1 %	2.1 %	5 mm/min; ISO 527
	2.8 %	2.8 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	2.2 %	2.2 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	9.52 GPa	1380 ksi	1 mm/min; ISO 527
	9.77 GPa	1420 ksi	50 mm/min; ASTM D638
Flexural Strength	172 MPa	24900 psi	ISO 178
	176 MPa	25500 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	8.83 GPa	1280 ksi	2 mm/min; ISO 178
	8.92 GPa	1290 ksi	1.3 mm/min, 50 mm span; ASTM D790

Izod Impact, Notched Mechanical Properties	1.32 J/cm Metric	2.47 ft-lb/in English	ASTM D256 Comments
Izod Impact, Unnotched	6.89 J/cm	12.9 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	13.0 kJ/m ²	6.19 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	42.0 kJ/m ²	20.0 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	17.0 J @Temperature 23.0 °C	12.5 ft-lb @Temperature 73.4 °F	ASTM D3763
Impact Test	5.00 J	3.69 ft-lb	Multiaxial Impact; ISO 6603
Coefficient of Friction, Dynamic	0.47	0.47	ASTM D3702 Modified
Coefficient of Friction, Static	0.62	0.62	ASTM D3702 Modified
K (wear) Factor	28.2 x 10 ⁻⁸ mm ³ /N-M	14.0 x 10 ⁻¹⁰ in ³ -min/ft-lb-hr	Ring; ASTM D3702 Modified
	193 x 10 ⁻⁸ mm ³ /N-M	96.0 x 10 ⁻¹⁰ in ³ -min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	30.2 µm/m-°C @Temperature -30.0 - 30.0 °C	16.8 µin/in-°F @Temperature -22.0 - 86.0 °F	ASTM D696
CTE, linear, Transverse to Flow	64.6 µm/m-°C @Temperature -30.0 - 30.0 °C	35.9 µin/in-°F @Temperature -22.0 - 86.0 °F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	138 °C	280 °F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	137 °C @Thickness 3.20 mm	279 °F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	133 °C	271 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	133 °C @Thickness 3.20 mm	271 °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