

SABIC Innovative Plastics LNP LUBRICOMP DL002P PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP LUBRICOMP* DL002P is a compound based on Polycarbonate resin containing 10% PTFE. Added features of this material include:
Exceptional Processing, Internally Lubricated.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-DL002P-PC.php

Physical Properties	Metric	English	Comments
Density	1.24 g/cc	0.0448 lb/in ³	ASTM D792
	1.25 g/cc	0.0452 lb/in ³	ISO 1183
Moisture Absorption	0.100 %	0.100 %	50% RH, 24 hrs; ASTM D570
	0.200 %	0.200 %	23°C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0070 - 0.0090 cm/cm	0.0070 - 0.0090 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0070 - 0.0090 cm/cm	0.0070 - 0.0090 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.010 - 0.012 cm/cm	0.010 - 0.012 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	43.0 MPa	6240 psi	ISO 527
	44.0 MPa	6380 psi	ASTM D638
Tensile Strength, Yield	53.0 MPa	7690 psi	ASTM D638
	54.0 MPa	7830 psi	ISO 527
Elongation at Break	23.1 %	23.1 %	ISO 527
	30.5 %	30.5 %	ASTM D638
Elongation at Yield	5.3 %	5.3 %	ASTM D638
	5.6 %	5.6 %	ISO 527
Tensile Modulus	2.45 GPa	355 ksi	50 mm/min; ASTM D638
	2.46 GPa	357 ksi	1 mm/min; ISO 527

Flexural Strength Mechanical Properties	82.0 MPa Metric	11900 psi English	ASTM D790 Comments
	85.0 MPa	12300 psi	ISO 178
Flexural Modulus	2.07 GPa	300 ksi	ISO 178
	2.20 GPa	319 ksi	ASTM D790
Izod Impact, Notched	1.06 J/cm	1.99 ft-lb/in	ASTM D256
Izod Impact, Unnotched	NB	NB	ASTM D4812
Izod Impact, Notched (ISO)	10.0 kJ/m ²	4.76 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	NB	NB	80*10*4; ISO 180/1U
Dart Drop, Total Energy	34.0 J	25.1 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	74.0 J	54.6 ft-lb	Multiaxial Impact; ISO 6603
Coefficient of Friction, Dynamic	0.28	0.28	ASTM D3702 Modified
Coefficient of Friction, Static	0.17	0.17	ASTM D3702 Modified
K (wear) Factor	195 x 10 ⁻⁸ mm ³ /N-M	97.0 x 10 ⁻¹⁰ in ³ -min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	66.6 µm/m-°C @Temperature -40.0 - 40.0 °C	37.0 µin/in-°F @Temperature -40.0 - 104 °F	ASTM E 831
	66.7 µm/m-°C @Temperature -40.0 - 40.0 °C	37.1 µin/in-°F @Temperature -40.0 - 104 °F	ISO 11359-2
CTE, linear, Transverse to Flow	72.0 µm/m-°C @Temperature -40.0 - 40.0 °C	40.0 µin/in-°F @Temperature -40.0 - 104 °F	ASTM E 831
	73.3 µm/m-°C @Temperature -40.0 - 40.0 °C	40.7 µin/in-°F @Temperature -40.0 - 104 °F	ISO 11359-2
Deflection Temperature at 1.8 MPa (264 psi)	123 °C	253 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	120 °C @Thickness 3.20 mm	248 °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