

SABIC Innovative Plastics LNP LUBRICOMP DL002PC PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP* LUBRICOMP* DL002PC is a compound based on Polycarbonate resin containing 10% PTFE. Added features of this grade are: Wear Resistant, Exceptional Processing, Clean Compound System.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-DL002PC-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	
Linear Mold Shrinkage, Transverse	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	5 mm/min; ISO 527
	44.0 MPa	6380 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	53.0 MPa	7690 psi	Type I, 5 mm/min; ASTM D638
	54.0 MPa	7830 psi	5 mm/min; ISO 527
Elongation at Break	23.1 %	23.1 %	5 mm/min; ISO 527
	30.5 %	30.5 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	5.3 %	5.3 %	Type I, 5 mm/min; ASTM D638
	5.6 %	5.6 %	5 mm/min; ISO 527
Tensile Modulus	2.45 GPa	355 ksi	50 mm/min; ASTM D638
	2.46 GPa	357 ksi	1 mm/min; ISO 527

Mechanical Properties	Metric	English	Comments
	85.0 MPa	12300 psi	ISO 178
Flexural Modulus	2.07 GPa	300 ksi	2 mm/min; ISO 178
	2.20 GPa	319 ksi	1.3 mm/min, 50 mm span; 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	66.0 μm/m-°C	36.7 μin/in-°F	ASTM E 831
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
	67.0 μm/m-°C	37.2 μin/in-°F	ISO 11359-2
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
CTE, linear, Transverse to Flow	72.0 μm/m-°C	40.0 μin/in-°F	ASTM E 831
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
	73.0 μm/m-°C	40.6 μin/in-°F	ISO 11359-2
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
Deflection Temperature at 1.8 MPa (264 psi)	123 °C	253 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	120 °C	248 °F	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648

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