

SABIC Innovative Plastics LNP LUBRILOY D2000P PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP LUBRILOY* D2000P is a compound based on Polycarbonate resin containing Proprietary Lubricant. Added features of this material include: Exceptional Processing, Wear Resistant.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRILOY-D2000P-PC.php

Physical Properties	Metric	English	Comments
Density	1.17 g/cc	0.0423 lb/in ³	ASTM D792
	1.17 g/cc	0.0423 lb/in ³	ISO 1183
Moisture Absorption	0.130 %	0.130 %	50% RH, 24 hrs; ASTM D570
	0.210 %	0.210 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0080 cm/cm	0.0080 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0084 cm/cm	0.0084 in/in	ISO 294
	@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	
	0.0081 cm/cm	0.0081 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	46.0 MPa	6670 psi	ASTM D638
	46.0 MPa	6670 psi	ISO 527
Tensile Strength, Yield	54.0 MPa	7830 psi	ISO 527
	56.0 MPa	8120 psi	ASTM D638
Elongation at Break	42.3 %	42.3 %	ASTM D638
	43.1 %	43.1 %	ISO 527
Elongation at Yield	5.3 %	5.3 %	ISO 527
	5.9 %	5.9 %	ASTM D638

Tensile Modulus Mechanical Properties	1.93 GPa Metric	280 ksi English	50 mm/min; ASTM D638 Comments
	2.10 GPa	305 ksi	1 mm/min; ISO 527
Flexural Strength	86.0 MPa	12500 psi	ASTM D790
	86.0 MPa	12500 psi	ISO 178
Flexural Modulus	2.27 GPa	329 ksi	ASTM D790
	2.30 GPa	334 ksi	ISO 178
Izod Impact, Notched	4.53 J/cm	8.49 ft-lb/in	ASTM D256
Izod Impact, Unnotched	NB	NB	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)	137 kJ/m ²	65.2 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	40.0 J	29.5 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	43.0 J	31.7 ft-lb	Multiaxial Impact; ISO 6603
Coefficient of Friction, Dynamic	0.19	0.19	ASTM D3702 Modified
Coefficient of Friction, Static	0.15	0.15	ASTM D3702 Modified
K (wear) Factor	88.6 x 10 ⁻⁸ mm ³ /N-M	44.0 x 10 ⁻¹⁰ in ³ - min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	71.2 Åµm/m-Å°C	39.6 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	71.2 Åµm/m-Å°C	39.6 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
CTE, linear, Transverse to Flow	72.7 Åµm/m-Å°C	40.4 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	72.8 Åµm/m-Å°C	40.4 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
Deflection Temperature at 0.46 MPa (66 psi)	137 Å°C	279 Å°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	

Deflection Temperature at 1.8 MPa Thermal Properties (104 psi)	Metric 121 Â°C	English 257 Â°F	Comments Class: 20, 10+4 sp=64mm; ISO 75/Af
	125 Â°C @Thickness 3.20 mm	257 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Flammability, UL94	HB @Thickness 1.50 mm	HB @Thickness 0.0591 in	UL 94 by SABIC-IP

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