

SABIC Innovative Plastics LNP LUBRILOY D2000I PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP* LUBRILOY* D2000I is a compound based on Polycarbonate resin containing Proprietary Lubricant. Added features of this material include: Wear Resistant, High Impact.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRILOY-D2000I-PC.php

Physical Properties	Metric	English	Comments
Density	1.17 g/cc	0.0423 lb/in ³	ASTM D792

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	54.0 MPa	7830 psi	ASTM D638
Tensile Strength, Yield	49.0 MPa	7110 psi	ASTM D638
Elongation at Break	130 %	130 %	ASTM D638
Elongation at Yield	5.6 %	5.6 %	ASTM D638
Flexural Strength	68.0 MPa	9860 psi	ASTM D790
Flexural Modulus	1.86 GPa	270 ksi	ASTM D790
Izod Impact, Notched	7.79 J/cm	14.6 ft-lb/in	ASTM D256
	5.42 J/cm	10.2 ft-lb/in	ASTM D256
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Izod Impact, Unnotched	17.62 J/cm	33.01 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	43.0 kJ/m ²	20.5 ft-lb/in ²	80*10*4; ISO 180/1A
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Coefficient of Friction, Dynamic	0.32	0.32	ASTM D3702 Modified
Coefficient of Friction, Static	0.22	0.22	ASTM D3702 Modified
K (wear) Factor	70.5 x 10 ⁻⁸ mm ³ /N-M	35.0 x 10 ⁻¹⁰ in ³ - min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	80.1 Åµm/m-Å°C	44.5 Åµin/in-Å°F	ISO 11359-2

Thermal Properties	Metric @Temperature -40.0 - 40.0 Â°C	English @Temperature -40.0 - 104 Â°F	Comments
	131 Âµm/m-Â°C	72.8 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
CTE, linear, Transverse to Flow	85.4 Âµm/m-Â°C	47.4 Âµin/in-Â°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	135 Âµm/m-Â°C	75.0 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
Deflection Temperature at 1.8 MPa (264 psi)	120 Â°C	248 Â°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	

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