

SABIC Innovative Plastics LNP LUBRILOY D2000 PC (Asia Pacific)

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP LUBRILOY* D2000 is a compound based on Polycarbonate resin containing Proprietary Lubricant. Added features of this material include: Internally Lubricated.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRILOY-D2000-PC-Asia-Pacific.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
	0.190 %	0.190 %	23 ^o 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	0.0070 - 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	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	54.0 MPa	7830 psi	ISO 527
	60.0 MPa	8700 psi	ASTM D638
Tensile Strength, Yield	51.0 MPa	7400 psi	ISO 527
	53.0 MPa	7690 psi	ASTM D638
Elongation at Break	98.6 %	98.6 %	ISO 527
	125.6 %	125.6 %	ASTM D638
Elongation at Yield	5.6 %	5.6 %	ISO 527
	6.5 %	6.5 %	ASTM D638

Tensile Modulus Mechanical Properties	1.85 GPa Metric	270 ksi English	50 mm/min; ASTM D638 Comments
	2.14 GPa	310 ksi	1 mm/min; ISO 527
Flexural Strength	78.0 MPa	11300 psi	ISO 178
	82.0 MPa	11900 psi	ASTM D790
Flexural Modulus	2.13 GPa	309 ksi	ASTM D790
	2.13 GPa	309 ksi	ISO 178
Izod Impact, Notched	7.15 J/cm	13.4 ft-lb/in	ASTM D256
Izod Impact, Unnotched	NB	NB	ASTM D4812
Izod Impact, Notched (ISO)	56.0 kJ/m ²	26.6 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	48.0 J	35.4 ft-lb	Multiaxial Impact; ISO 6603
Coefficient of Friction, Dynamic	0.16	0.16	ASTM D3702 Modified
Coefficient of Friction, Static	0.090	0.090	ASTM D3702 Modified
K (wear) Factor	121 x 10 ⁻⁸ mm ³ /N-M	60.0 x 10 ⁻¹⁰ in ³ - min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	74.1 Åµm/m-Å°C	41.2 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	74.2 Åµm/m-Å°C	41.2 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	73.8 Åµm/m-Å°C	41.0 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	73.8 Åµm/m-Å°C	41.0 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)	140 Å°C	284 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	140 Å°C	284 Å°F	

Thermal Properties	Metric @ Thickness 3.20 mm	English @ Thickness 0.126 in	unannealed; ASTM D648 Comments
Deflection Temperature at 1.8 MPa (264 psi)	126 Â°C	259 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	126 Â°C @Thickness 3.20 mm	259 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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