

SABIC Innovative Plastics LNP Lubriloy D2000XXH PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP LUBRILLOY* D2000XXH is a compound based on Polycarbonate resin containing Proprietary Lubricant. Added features of this material include: Internally Lubricated, Healthcare. This data was supplied by SABIC-IP for the Americas region.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-Lubriloy-D2000XXH-PC.php

Physical Properties	Metric	English	Comments
Density	1.17 g/cc	0.0423 lb/in ³	ASTM D 792
	1.17 g/cc	0.0423 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	0.19 %	0.19 %	23 ^o C / 50% RH; ISO 62
	0.13 % @Time 86400 sec	0.13 % @Time 24.0 hour	50% RH; ASTM D 570
Linear Mold Shrinkage, Flow	0.0070 - 0.0090 cm/cm	0.0070 - 0.0090 in/in	ASTM D 955
	@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 D 955
	@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 D 638
Tensile Strength, Yield	51.0 MPa	7400 psi	ISO 527
	53.0 MPa	7690 psi	ASTM D 638
Elongation at Break	98.6 %	98.6 %	ISO 527
	125.6 %	125.6 %	ASTM D 638
Elongation at Yield	5.6 %	5.6 %	ISO 527
	6.5 %	6.5 %	ASTM D 638

Mechanical Properties	Metric	English	Comments
Tensile Modulus	1.88 GPa	270 ksi	50 mm/min; ASTM D 638
	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 D 790
Flexural Modulus	2.13 GPa	309 ksi	ASTM D 790
	2.13 GPa	309 ksi	ISO 178
Izod Impact, Notched	7.15 J/cm @Temperature 23.0 Â°C	13.4 ft-lb/in @Temperature 73.4 Â°F	ASTM D 256
Izod Impact, Unnotched	NB @Temperature 23.0 Â°C	NB @Temperature 73.4 Â°F	ASTM D 4812
Izod Impact, Notched (ISO)	56.0 kJ/mÂ² @Temperature 23.0 Â°C	26.6 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	137 kJ/mÂ² @Temperature 23.0 Â°C	65.2 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1U
Impact Test	48.0 J	35.4 ft-lb	Multiaxial Impact; ISO 6603
	40.0 J @Temperature 23.0 Â°C	29.5 ft-lb @Temperature 73.4 Â°F	Instrumented Impact Energy @ peak; ASTM D 3763
Coefficient of Friction, Dynamic	0.16	0.16	ASTM D 3702 Modified
Coefficient of Friction, Static	0.090	0.090	ASTM D 3702 Modified
K (wear) Factor	121 x 10 ⁻⁸ mmÂ³/N-M	60.0 x 10 ⁻¹⁰ inÂ³- min/ft-lb-hr	Washer; ASTM D 3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	74.1 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	41.2 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
	74.2 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	41.2 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ISO 11359-2

Thermal Properties <i>CTE, linear, transverse to Flow</i>	73.8 Åµm/m-Å°C Metric	41.0 Åµin/in-Å°F English	Comments 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	unannealed; ASTM D 648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	126 Å°C	259 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	126 Å°C	259 Å°F	unannealed; ASTM D 648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Flammability, UL94	HB	HB	UL 94
	@Thickness 1.50 mm	@Thickness 0.0591 in	

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