

SABIC Innovative Plastics LNP LUBRILLOY D2000 PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP LUBRILLOY* D2000 is a compound based on Polycarbonate resin containing Proprietary Lubricant. Added feature of this material is: Wear Resistant.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRILLOY-D2000-PC.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.17 g/cc	1.17 g/cc	ASTM D792
Density	1.17 g/cc	0.0423 lb/in ³	ASTM D792
Moisture Absorption	0.140 %	0.140 %	50% RH, 24 hrs; ASTM D570
	0.180 %	0.180 %	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	
Linear Mold Shrinkage, Transverse	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	
Linear Mold Shrinkage, Transverse	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	Type I, 5 mm/min; ASTM D638
	58.0 MPa	8410 psi	5 mm/min; ISO 527
Tensile Strength, Yield	57.0 MPa	8270 psi	Type I, 5 mm/min; ASTM D638
	59.0 MPa	8560 psi	5 mm/min; ISO 527
Elongation at Break	47 %	47 %	Type I, 5 mm/min; ASTM D638
	170 %	170 %	5 mm/min; ISO 527
Elongation at Yield	6.1 %	6.1 %	Type I, 5 mm/min; ASTM D638
	6.6 %	6.6 %	5 mm/min; ISO 527

Tensile Modulus Mechanical Properties	2.05 GPa Metric	297 ksi English	5 mm/min; ASTM D638 Comments
	2.09 GPa	303 ksi	1 mm/min; ISO 527
Flexural Strength	77.0 MPa	11200 psi	ISO 178
Flexural Modulus	1.97 GPa	286 ksi	2 mm/min; ISO 178
	2.17 GPa	315 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	6.93 J/cm	13.0 ft-lb/in	ASTM D256
Izod Impact, Unnotched	NB	NB	ASTM D4812
Izod Impact, Notched (ISO)	59.0 kJ/m ²	28.1 ft-lb/in ²	80*10*4; ISO 180/1A
Dart Drop, Total Energy	50.0 J @Temperature 23.0 Â°C	36.9 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Impact Test	42.0 J	31.0 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	75.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	41.7 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	76.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	42.2 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	139 Â°C	282 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	142 Â°C @Thickness 3.20 mm	288 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	128 Â°C	262 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/ Af
	131 Â°C @Thickness 3.20 mm	268 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Flammability, UL94	HB	HB	UL 94

Thermal Properties	@Thickness 1.50 mm Metric	@Thickness 0.0591 in English	Comments
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