

SABIC Innovative Plastics LNP LUBRILOY D20009P PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP* LUBRILOY* D20009P is a compound based on Polycarbonate resin containing Proprietary Lubricant. Added features of this material include: Wear Resistant, Flame Retardant, Exceptional Processing.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRILOY-D20009P-PC.php

Physical Properties	Metric	English	Comments
Density	1.20 g/cc	0.0434 lb/in ³	ISO 1183
	1.21 g/cc	0.0437 lb/in ³	ASTM D792
Moisture Absorption	0.100 %	0.100 %	50% RH, 24 hrs; ASTM D570

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	49.0 MPa	7110 psi	ISO 527
	51.0 MPa	7400 psi	ASTM D638
Tensile Strength, Yield	57.0 MPa	8270 psi	ASTM D638
	58.0 MPa	8410 psi	ISO 527
Elongation at Break	67.9 %	67.9 %	ISO 527
	77.4 %	77.4 %	ASTM D638
Elongation at Yield	5.8 %	5.8 %	ISO 527
	6.2 %	6.2 %	ASTM D638
Tensile Modulus	2.06 GPa	299 ksi	50 mm/min; ASTM D638
	2.17 GPa	315 ksi	1 mm/min; ISO 527
Flexural Strength	73.0 MPa	10600 psi	ISO 178
Flexural Modulus	2.06 GPa	299 ksi	ASTM D790
	2.10 GPa	305 ksi	ISO 178
Izod Impact, Notched	1.76 J/cm	3.30 ft-lb/in	ASTM D256
Izod Impact, Unnotched	19.75 J/cm	37.00 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	16.0 kJ/m ²	7.61 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)			80*10*4; ISO 180/1U

Mechanical Properties	^{172 kJ/mÂ²} Metric	^{81.8 ft-lb/inÂ²} English	Comments
Dart Drop, Total Energy	47.0 J	34.7 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	0.29	0.29	ASTM D3702 Modified
Coefficient of Friction, Static	0.23	0.23	ASTM D3702 Modified
K (wear) Factor	101 x 10 ⁻⁸ mmÂ³/N-M	50.0 x 10 ⁻¹⁰ inÂ³-min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	72.0 Âµm/m-Â°C	40.0 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	73.0 Âµm/m-Â°C	40.6 Âµin/in-Â°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
CTE, linear, Transverse to Flow	72.0 Âµm/m-Â°C	40.0 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	72.0 Âµm/m-Â°C	40.0 Âµin/in-Â°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
Deflection Temperature at 0.46 MPa (66 psi)	139 Â°C	282 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	137 Â°C	279 Â°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	127 Â°C	261 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	126 Â°C	259 Â°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	

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