

SABIC Innovative Plastics LNP LUBRICOMP DI001L PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP* LUBRICOMP* DI001L is a compound based on Polycarbonate resin containing 2% Silicone. Added characteristics of this grade are:
Low Extractable.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-DI001L-PC.php

Physical Properties	Metric	English	Comments
Density	1.19 g/cc	0.0430 lb/in ³	ASTM D792
Moisture Absorption	0.170 %	0.170 %	50% RH, 24 hrs; ASTM D570
	0.220 %	0.220 %	23°C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0050 - 0.0080 cm/cm	0.0050 - 0.0080 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0070 - 0.010 cm/cm	0.0070 - 0.010 in/in	ASTM D955
	@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
	48.0 MPa	6960 psi	5 mm/min; ISO 527
Tensile Strength, Yield	57.0 MPa	8270 psi	5 mm/min; ISO 527
	58.0 MPa	8410 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	42.8 %	42.8 %	5 mm/min; ISO 527
	49 %	49 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	6.3 %	6.3 %	5 mm/min; ISO 527
	6.6 %	6.6 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	2.21 GPa	321 ksi	1 mm/min; ISO 527
	2.28 GPa	331 ksi	50 mm/min; ASTM D638
Flexural Strength	72.0 MPa	10400 psi	ISO 178
Flexural Modulus	2.11 GPa	306 ksi	2 mm/min; ISO 178
	2.36 GPa	342 ksi	1.3 mm/min, 50 mm span; ASTM D790

Mechanical Properties <i>Izod Impact, Notched</i>	Metric <i>1.82 J/cm</i>	English <i>14.7 ft-lb/in</i>	Comments <i>ASTM D256</i>
Izod Impact, Unnotched	20.6 J/cm	38.6 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	62.0 kJ/m ²	29.5 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	179 kJ/m ²	85.2 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	41.0 J @Temperature 23.0 °C	30.2 ft-lb @Temperature 73.4 °F	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	0.18	0.18	ASTM D3702 Modified
K (wear) Factor	876 x 10 ⁻⁸ mm ³ /N-M	435 x 10 ⁻¹⁰ in ³ -min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	57.0 µm/m-°C @Temperature -30.0 - 30.0 °C	31.7 µin/in-°F @Temperature -22.0 - 86.0 °F	ASTM D696
CTE, linear, Transverse to Flow	68.0 µm/m-°C @Temperature -30.0 - 30.0 °C	37.8 µin/in-°F @Temperature -22.0 - 86.0 °F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	141 °C	286 °F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	141 °C @Thickness 3.20 mm	286 °F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	127 °C	261 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	128 °C @Thickness 3.20 mm	262 °F @Thickness 0.126 in	unannealed; ASTM D648

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