

SABIC Innovative Plastics LNP LUBRICOMP DL004 PC (Asia Pacific)

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP* Lubricomp* DL004 is a compound based on Polycarbonate resin containing PTFE. Added features of this material include: Internally Lubricated.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-DL004-PC-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Density	1.30 g/cc	0.0470 lb/in ³	ASTM D792
	1.30 g/cc	0.0470 lb/in ³	ISO 1183
Moisture Absorption	0.200 %	0.200 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.0059 cm/cm	0.0059 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0060 cm/cm	0.0060 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0060 cm/cm	0.0060 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0064 cm/cm	0.0064 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	38.0 MPa	5510 psi	ASTM D638
	39.0 MPa	5660 psi	ISO 527
Tensile Strength, Yield	42.0 MPa	6090 psi	ASTM D638
	44.0 MPa	6380 psi	ISO 527
Elongation at Break	28.9 %	28.9 %	ASTM D638
	29.3 %	29.3 %	ISO 527
Elongation at Yield	5.9 %	5.9 %	ISO 527
	6.1 %	6.1 %	ASTM D638
Tensile Modulus	2.05 GPa	297 ksi	1 mm/min; ISO 527

Mechanical Properties	2.06 GPa Metric	299 ksi English	50 mm/min; ASTM D638 Comments
Flexural Strength	63.0 MPa	9140 psi	ISO 178
	73.0 MPa	10600 psi	ASTM D790
Flexural Modulus	2.00 GPa	290 ksi	ISO 178
	2.06 GPa	299 ksi	ASTM D790
Izod Impact, Notched	1.06 J/cm	1.99 ft-lb/in	ASTM D256
Izod Impact, Unnotched	18.69 J/cm	35.01 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	11.0 kJ/m ²	5.23 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	178 kJ/m ²	84.7 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	24.0 J	17.7 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	21.0 J	15.5 ft-lb	Multiaxial Impact; ISO 6603
Coefficient of Friction, Dynamic	0.34	0.34	ASTM D3702 Modified
Coefficient of Friction, Static	0.19	0.19	ASTM D3702 Modified
K (wear) Factor	14.1 x 10 ⁻⁸ mm ³ /N-M	7.00 x 10 ⁻¹⁰ in ³ - min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	77.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	42.8 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ISO 11359-2
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
	77.4 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	43.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM E 831
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
CTE, linear, Transverse to Flow	75.6 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	42.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM E 831
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
Deflection Temperature at 0.46 MPa (66 psi)	76.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	42.2 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ISO 11359-2
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
	143 $\text{Å}^\circ\text{C}$	289 $\text{Å}^\circ\text{F}$	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	141 $\text{Å}^\circ\text{C}$	286 $\text{Å}^\circ\text{F}$	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	

Thermal Properties (204 psi)	Metric	English	Comments
Temperature at 1.8 MPa	127 Å°C	261 Å°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	

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