

SABIC Innovative Plastics LNP LUBRICOMP DFL349 PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP LUBRICOMP* DFL349 is a compound based on Polycarbonate resin containing 20% Glass Fiber, 15% PTFE. Added features of this material include: Flame Retardant, Internally Lubricated.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-DFL349-PC.php

Physical Properties	Metric	English	Comments
Density	1.50 g/cc	0.0542 lb/in ³	ISO 1183
	1.50 g/cc	0.0542 lb/in ³	ASTM D792
Moisture Absorption	0.120 %	0.120 %	23°C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0040 - 0.0060 cm/cm	0.0040 - 0.0060 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0040 - 0.0060 cm/cm	0.0040 - 0.0060 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0040 - 0.0060 cm/cm	0.0040 - 0.0060 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0040 - 0.0060 cm/cm	0.0040 - 0.0060 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	88.0 MPa	12800 psi	ASTM D638
	98.0 MPa	14200 psi	ISO 527
Elongation at Break	2.4 %	2.4 %	ASTM D638
	3.4 %	3.4 %	ISO 527
Tensile Modulus	6.52 GPa	946 ksi	50 mm/min; ASTM D638
	7.22 GPa	1050 ksi	1 mm/min; ISO 527
Flexural Strength	146 MPa	21200 psi	ISO 178
	151 MPa	21900 psi	ASTM D790
Flexural Modulus	5.83 GPa	846 ksi	ISO 178

Mechanical Properties	5.87 GPa Metric	851 ksi English	ASTM D790 Comments
Izod Impact, Notched	1.06 J/cm	1.99 ft-lb/in	ASTM D256
Izod Impact, Unnotched	5.01 J/cm	9.39 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)	40.0 kJ/m ²	19.0 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	15.0 J	11.1 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	12.0 J	8.85 ft-lb	Multiaxial Impact; ISO 6603
Coefficient of Friction, Dynamic	0.42	0.42	ASTM D3702 Modified
Coefficient of Friction, Static	0.34	0.34	ASTM D3702 Modified
K (wear) Factor	232 x 10 ⁻⁸ mm ³ /N-M	115 x 10 ⁻¹⁰ in ³ -min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	19.8 µm/m-°C	11.0 µin/in-°F	ASTM E 831
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
	20.2 µm/m-°C	11.2 µin/in-°F	ISO 11359-2
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
CTE, linear, Transverse to Flow	61.2 µm/m-°C	34.0 µin/in-°F	ASTM E 831
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
Deflection Temperature at 1.8 MPa (264 psi)	61.8 µm/m-°C	34.3 µin/in-°F	ISO 11359-2
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
Deflection Temperature at 1.8 MPa (264 psi)	138 °C	280 °F	Flatw 80*10*4 sp=64mm; ISO 75/ Af
	137 °C	279 °F	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648

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