

SABIC Innovative Plastics LNP LUBRICOMP DL0049EF PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP* Lubricomp* DL0049EF is a compound based on Polycarbonate resin containing 20% PTFE, Flame Retardant. Added features of this material include: Internally Lubricated, Flame Retardant

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-DL0049EF-PC.php

Physical Properties	Metric	English	Comments
Density	1.35 g/cc	0.0488 lb/in ³	ASTM D792
	1.35 g/cc	0.0488 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0061 cm/cm	0.0061 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0085 cm/cm	0.0085 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.0080 - 0.010 cm/cm	0.0080 - 0.010 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	40.0 MPa	5800 psi	ASTM D638
	43.0 MPa	6240 psi	ISO 527
Tensile Strength, Yield	47.0 MPa	6820 psi	ASTM D638
	49.0 MPa	7110 psi	ISO 527
Elongation at Break	23.2 %	23.2 %	ASTM D638
	26.1 %	26.1 %	ISO 527
Elongation at Yield	5.2 %	5.2 %	ASTM D638
	5.4 %	5.4 %	ISO 527
Tensile Modulus	2.06 GPa	299 ksi	50 mm/min; ASTM D638
	2.09 GPa	303 ksi	1 mm/min; ISO 527

Flexural Strength Mechanical Properties	70.0 MPa Metric	10200 psi English	ISO 178 Comments
Flexural Modulus	2.06 GPa	299 ksi	ASTM D790
	2.20 GPa	319 ksi	ISO 178
Izod Impact, Notched	1.22 J/cm	2.29 ft-lb/in	ASTM D256
Izod Impact, Unnotched	15.69 J/cm	29.39 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	10.0 kJ/mÂ²	4.76 ft-lb/inÂ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	118 kJ/mÂ²	56.1 ft-lb/inÂ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	32.0 J	23.6 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	26.0 J	19.2 ft-lb	Multiaxial Impact; ISO 6603
Coefficient of Friction, Dynamic	0.32	0.32	ASTM D3702 Modified
Coefficient of Friction, Static	0.19	0.19	ASTM D3702 Modified
K (wear) Factor	16.1 x 10 ⁻⁸ mmÂ³/N-M	8.00 x 10 ⁻¹⁰ inÂ³- min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	75.6 Âµm/m-Â°C	42.0 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	76.0 Âµm/m-Â°C	42.2 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	78.0 Âµm/m-Â°C	43.3 Âµin/in-Â°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	79.2 Âµm/m-Â°C	44.0 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
Deflection Temperature at 0.46 MPa (66 psi)	136 Â°C	277 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)	126 Â°C	259 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	123 Â°C	253 Â°F	

Thermal Properties	Metric @ Thickness 3.20 mm	English @ Thickness 0.126 in	unannealed; ASTM D648 Comments
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