

SABIC Innovative Plastics LNP LUBRICOMP DL0039EF PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP* Lubricomp* DL-0039EF is a compound based on Polycarbonate resin containing 15% PTFE. Characteristics of this grade include:
Flame Retardant and Internally Lubricated.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-DL0039EF-PC.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.31 g/cc	1.31 g/cc	ASTM D792
Density	1.30 g/cc	0.0470 lb/in ³	ASTM D792
Moisture Absorption	0.110 %	0.110 %	50% RH, 24 hrs; ASTM D570
	0.180 %	0.180 %	23°C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0010 - 0.0030 cm/cm	0.0010 - 0.0030 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0060 - 0.0080 cm/cm	0.0060 - 0.0080 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	44.0 MPa	6380 psi	Type I, 5 mm/min; ASTM D638
	44.0 MPa	6380 psi	5 mm/min; ISO 527
Tensile Strength, Yield	52.0 MPa	7540 psi	5 mm/min; ISO 527
	53.0 MPa	7690 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	22 %	22 %	Type I, 5 mm/min; ASTM D638
	27 %	27 %	5 mm/min; ISO 527
Elongation at Yield	5.4 %	5.4 %	Type I, 5 mm/min; ASTM D638
	5.5 %	5.5 %	5 mm/min; ISO 527
Tensile Modulus	2.09 GPa	303 ksi	1 mm/min; ISO 527
	2.21 GPa	321 ksi	5 mm/min; ASTM D638
Flexural Strength	77.0 MPa	11200 psi	ISO 178
Flexural Modulus	2.09 GPa	303 ksi	2 mm/min; ISO 178

Mechanical Properties	Metric	English	Comments
Izod Impact, Notched (ISO)	142 kJ/m ²	67.6 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	1740 kJ/m ²	828 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	36.0 J @Temperature 23.0 °C	26.6 ft-lb @Temperature 73.4 °F	ASTM D3763
Impact Test	35.0 J	25.8 ft-lb	Multiaxial Impact; ISO 6603
Coefficient of Friction, Dynamic	0.35	0.35	ASTM D3702 Modified
Coefficient of Friction, Static	0.18	0.18	ASTM D3702 Modified
K (wear) Factor	12.1 x 10 ⁻⁸ mm ³ /N-M	6.00 x 10 ⁻¹⁰ in ³ -min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	75.0 μm/m-°C @Temperature -30.0 - 30.0 °C	41.7 μin/in-°F @Temperature -22.0 - 86.0 °F	ASTM D696
CTE, linear, Transverse to Flow	76.0 μm/m-°C @Temperature -30.0 - 30.0 °C	42.2 μin/in-°F @Temperature -22.0 - 86.0 °F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	137 °C	279 °F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	137 °C @Thickness 3.20 mm	279 °F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	125 °C	257 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	126 °C @Thickness 3.20 mm	259 °F @Thickness 0.126 in	unannealed; ASTM D648

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