

## SABIC Innovative Plastics LNP LUBRICOMP DL0029E PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

**Material Notes:**

LNP LUBRICOMP\* DL0029E is a compound based on Polycarbonate resin containing 10% PTFE. 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-DL0029E-PC.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-DL0029E-PC.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.31 g/cc	1.31 g/cc	ASTM D792
Density	1.31 g/cc	0.0473 lb/in <sup>3</sup>	ASTM D792
Moisture Absorption	0.0100 %	0.0100 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.0060 - 0.0080 cm/cm @Time 86400 sec	0.0060 - 0.0080 in/in @Time 24.0 hour	ASTM D955
Linear Mold Shrinkage, Transverse	0.0080 - 0.010 cm/cm @Time 86400 sec	0.0080 - 0.010 in/in @Time 24.0 hour	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	47.0 MPa	6820 psi	Type I, 5 mm/min; ASTM D638
	51.0 MPa	7400 psi	ASTM D638
Tensile Strength, Yield	56.0 MPa	8120 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	26 %	26 %	ASTM D638
	33 %	33 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	5.7 %	5.7 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	2.24 GPa	325 ksi	50 mm/min; ASTM D638
Flexural Strength	86.0 MPa	12500 psi	ASTM D790
Flexural Modulus	2.33 GPa	338 ksi	1.3 mm/min, 50 mm span; ASTM D790
	2.34 GPa	339 ksi	ASTM D790
Izod Impact, Notched	1.19 J/cm	2.23 ft-lb/in	ASTM D256
Izod Impact, Unnotched	20.2 J/cm	37.8 ft-lb/in	ASTM D4812
	46.0 J	33.9 ft-lb	

<b>Dart Drop, Total Energy Mechanical Properties</b>	<b>Metric</b> @ Temperature 23.0 °C	<b>English</b> @ Temperature 73.4 °F	<b>ASTM D3763 Comments</b>
Coefficient of Friction, Dynamic	0.20	0.20	ASTM D3702 Modified
Coefficient of Friction, Static	0.14	0.14	ASTM D3702 Modified
K (wear) Factor	111 x 10 <sup>-8</sup> mm <sup>3</sup> /N-M	55.0 x 10 <sup>-10</sup> in <sup>3</sup> -min/ft-lb-hr	Washer; ASTM D3702 Modified

<b>Thermal Properties</b>	<b>Metric</b>	<b>English</b>	<b>Comments</b>
CTE, linear, Parallel to Flow	71.0 µm/m-°C @Temperature -30.0 - 30.0 °C	39.4 µin/in-°F @Temperature -22.0 - 86.0 °F	ASTM D696
CTE, linear, Transverse 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
Deflection Temperature at 0.46 MPa (66 psi)	141 °C @Thickness 3.20 mm	286 °F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	130 °C @Thickness 3.20 mm	266 °F @Thickness 0.126 in	unannealed; ASTM D648
Flammability, UL94	V-0 @Thickness 1.80 mm	V-0 @Thickness 0.0709 in	UL 94

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