

## SABIC Innovative Plastics LNP LUBRICOMP DFL369XF PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

### Material Notes:

LNP\* LUBRICOMP\* DFL369XF is a compound based on Polycarbonate resin containing 30% Glass Fiber, 15% 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-DFL369XF-PC.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-DFL369XF-PC.php)

Physical Properties	Metric	English	Comments
Density	1.60 g/cc	0.0578 lb/in <sup>3</sup>	ASTM D792
	1.60 g/cc	0.0578 lb/in <sup>3</sup>	ISO 1183
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	
	0.0021 cm/cm	0.0021 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0030 - 0.0050 cm/cm	0.0030 - 0.0050 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0040 cm/cm	0.0040 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	112 MPa	16200 psi	ASTM D638
	115 MPa	16700 psi	ISO 527
Tensile Strength, Yield	115 MPa	16700 psi	ISO 527
	116 MPa	16800 psi	ASTM D638
Elongation at Break	2.1 %	2.1 %	ISO 527
	2.3 %	2.3 %	ASTM D638
Elongation at Yield	2.1 %	2.1 %	ISO 527
	2.2 %	2.2 %	ASTM D638
Tensile Modulus	9.93 GPa	1440 ksi	1 mm/min; ISO 527
	10.34 GPa	1500 ksi	50 mm/min; ASTM D638

Flexural Strength Mechanical Properties	173 MPa Metric	25100 psi English	ISO 178 Comments
	179 MPa	26000 psi	ASTM D790
Flexural Modulus	8.96 GPa	1300 ksi	ASTM D790
	9.20 GPa	1330 ksi	ISO 178
Izod Impact, Notched	6.62 J/cm	12.4 ft-lb/in	ASTM D256
Izod Impact, Unnotched	1.22 J/cm	2.29 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	11.0 kJ/m <sup>2</sup>	5.23 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	39.0 kJ/m <sup>2</sup>	18.6 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1U
Dart Drop, Total Energy	19.0 J	14.0 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	4.00 J	2.95 ft-lb	Multiaxial Impact; ISO 6603
Coefficient of Friction, Dynamic	0.51	0.51	ASTM D3702 Modified
Coefficient of Friction, Static	0.52	0.52	ASTM D3702 Modified
K (wear) Factor	56.4 x 10 <sup>-8</sup> mm <sup>3</sup> /N-M	28.0 x 10 <sup>-10</sup> in <sup>3</sup> -min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	54.0 µm/m-°C	30.0 µin/in-°F	ASTM E 831
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
	54.0 µm/m-°C	30.0 µin/in-°F	ISO 11359-2
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
CTE, linear, Transverse to Flow	21.6 µm/m-°C	12.0 µin/in-°F	ASTM E 831
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
	22.0 µm/m-°C	12.2 µin/in-°F	ISO 11359-2
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
Deflection Temperature at 0.46 MPa (66 psi)	140 °C	284 °F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	138 °C	280 °F	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	135 °C	275 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af

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

## Contact Songhan Plastic Technology Co.,Ltd.

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