

## SABIC Innovative Plastics LNP LUBRICOMP DFL22 PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

### Material Notes:

LNP\* Lubricomp\* DFL22 is a compound based on Polycarbonate resin containing 10% Glass Fiber and 10% PTFE. Added features include: Internally Lubricated.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-LNP-LUBRICOMP-DFL22-PC.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-DFL22-PC.php)

Physical Properties	Metric	English	Comments
Density	1.33 g/cc	0.0480 lb/in <sup>3</sup>	ISO 1183
	1.34 g/cc	0.0484 lb/in <sup>3</sup>	ASTM D792
Moisture Absorption	0.100 %	0.100 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	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	0.0050 cm/cm	0.0050 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0065 cm/cm	0.0065 in/in	ISO 294
	@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	67.0 MPa	9720 psi	ASTM D638
	67.0 MPa	9720 psi	ISO 527
Tensile Strength, Yield	71.0 MPa	10300 psi	ASTM D638
	71.0 MPa	10300 psi	ISO 527
Elongation at Break	5.5 %	5.5 %	ASTM D638
	5.8 %	5.8 %	ISO 527
Elongation at Yield	3.3 %	3.3 %	ASTM D638
	3.3 %	3.3 %	ISO 527
Tensile Modulus	4.13 GPa	599 ksi	50 mm/min; ASTM D638

Mechanical Properties	4.15 GPa Metric	602 ksi English	1 mm/min: ISO 527 Comments
Flexural Strength	118 MPa	17100 psi	ISO 178
Flexural Modulus	3.90 GPa	566 ksi	ISO 178
	4.13 GPa	599 ksi	ASTM D790
Izod Impact, Notched	1.44 J/cm	2.70 ft-lb/in	ASTM D256
Izod Impact, Unnotched	7.36 J/cm	13.8 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	13.0 kJ/m <sup>2</sup>	6.19 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	48.0 kJ/m <sup>2</sup>	22.8 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1U
Dart Drop, Total Energy	23.0 J	17.0 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	6.00 J	4.43 ft-lb	Multiaxial Impact; ISO 6603
Coefficient of Friction, Dynamic	0.37	0.37	ASTM D3702 Modified
Coefficient of Friction, Static	0.43	0.43	ASTM D3702 Modified
K (wear) Factor	332 x 10 <sup>-8</sup> mm <sup>3</sup> /N-M	165 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	55.8 μm/m-°C	31.0 μin/in-°F	ASTM E 831
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
	56.0 μm/m-°C	31.1 μin/in-°F	ISO 11359-2
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
CTE, linear, Transverse to Flow	55.8 μm/m-°C	31.0 μin/in-°F	ASTM E 831
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
	56.0 μm/m-°C	31.1 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)	146 °C	295 °F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	145 °C	293 °F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	140 °C	284 °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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