

## SABIC Innovative Plastics LNP LUBRICOMP DFL32P PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

### Material Notes:

LNP\* LUBRICOMP\* DFL32P is a compound based on Polycarbonate resin containing 10% Glass Fiber, 15% PTFE. Added features include:  
Internally Lubricated, Exceptional Processing.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-LNP-LUBRICOMP-DFL32P-PC.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-DFL32P-PC.php)

Physical Properties	Metric	English	Comments
Density	1.36 g/cc	0.0491 lb/in <sup>3</sup>	ASTM D792
	1.36 g/cc	0.0491 lb/in <sup>3</sup>	ISO 1183
Moisture Absorption	0.120 %	0.120 %	50% RH, 24 hrs; ASTM D570
	0.150 %	0.150 %	23°C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0030 - 0.0050 cm/cm	0.0030 - 0.0050 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	75.0 MPa	10900 psi	Type I, 5 mm/min; ASTM D638
	75.0 MPa	10900 psi	5 mm/min; ISO 527
Tensile Strength, Yield	76.0 MPa	11000 psi	Type I, 5 mm/min; ASTM D638
	77.0 MPa	11200 psi	5 mm/min; ISO 527
Elongation at Break	3.3 %	3.3 %	Type I, 5 mm/min; ASTM D638
	3.4 %	3.4 %	5 mm/min; ISO 527
Elongation at Yield	2.8 %	2.8 %	Type I, 5 mm/min; ASTM D638
	2.9 %	2.9 %	5 mm/min; ISO 527
Tensile Modulus	4.51 GPa	654 ksi	1 mm/min; ISO 527
	4.78 GPa	693 ksi	50 mm/min; ASTM D638
Flexural Strength	123 MPa	17800 psi	ISO 178
	128 MPa	18600 psi	1.3 mm/min, 50 mm span; ASTM D790

Mechanical Properties	Metric	English	Comments
Flexural Yield Strength	128 MPa	18600 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	4.24 GPa	615 ksi	1.3 mm/min, 50 mm span; ASTM D790
	4.32 GPa	627 ksi	2 mm/min; ISO 178
Izod Impact, Notched	1.10 J/cm	2.06 ft-lb/in	ASTM D256
Izod Impact, Unnotched	6.05 J/cm	11.3 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)	38.0 kJ/m <sup>2</sup>	18.1 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1U
Dart Drop, Total Energy	21.0 J @Temperature 23.0 °C	15.5 ft-lb @Temperature 73.4 °F	ASTM D3763
Impact Test	5.00 J	3.69 ft-lb	Multiaxial Impact; ISO 6603
Coefficient of Friction, Dynamic	0.42	0.42	ASTM D3702 Modified
Coefficient of Friction, Static	0.52	0.52	ASTM D3702 Modified
K (wear) Factor	30.2 x 10 <sup>-8</sup> mm <sup>3</sup> /N-M	15.0 x 10 <sup>-10</sup> in <sup>3</sup> -min/ft-lb-hr	Ring; ASTM D3702 Modified
	280 x 10 <sup>-8</sup> mm <sup>3</sup> /N-M	139 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	35.1 µm/m-°C @Temperature -30.0 - 30.0 °C	19.5 µin/in-°F @Temperature -22.0 - 86.0 °F	ASTM D696
CTE, linear, Transverse to Flow	74.6 µm/m-°C @Temperature -30.0 - 30.0 °C	41.4 µin/in-°F @Temperature -22.0 - 86.0 °F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	139 °C	282 °F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	140 °C @Thickness 3.20 mm	284 °F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	134 °C	273 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	135 °C @Thickness 3.20 mm	275 °F @Thickness 0.126 in	unannealed; ASTM D648

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