

SABIC Innovative Plastics LNP LUBRICOMP DFL22 PC (Asia Pacific)

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP* Lubricomp* DFL22 is a compound based on Polycarbonate resin containing Glass Fiber, PTFE. Added features of this material include: Internally Lubricated.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-DFL22-PC-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Density	1.33 g/cc	0.0480 lb/in ³	ISO 1183
	1.34 g/cc	0.0484 lb/in ³	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
	67.0 MPa	9720 psi	5 mm/min; ISO 527
	68.0 MPa	9860 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	71.0 MPa	10300 psi	ASTM D638
	71.0 MPa	10300 psi	ISO 527
	71.0 MPa	10300 psi	5 mm/min; ISO 527
	72.0 MPa	10400 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	5.5 %	5.5 %	ASTM D638

Mechanical Properties	Metric	English	Comments
	5.8 %	5.8 %	ISO 527
	5.8 %	5.8 %	5 mm/min; ISO 527
Elongation at Yield	3.3 %	3.3 %	ASTM D638
	3.3 %	3.3 %	ISO 527
	3.3 %	3.3 %	5 mm/min; ISO 527
	3.5 %	3.5 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	4.13 GPa	599 ksi	50 mm/min; ASTM D638
	4.15 GPa	602 ksi	1 mm/min; ISO 527
Flexural Strength	118 MPa	17100 psi	ISO 178
Flexural Yield Strength	118 MPa	17100 psi	2 mm/min; ISO 178
Flexural Modulus	3.90 GPa	566 ksi	ISO 178
	3.90 GPa	566 ksi	2 mm/min; ISO 178
	4.13 GPa	599 ksi	ASTM D790
	4.14 GPa	600 ksi	1.3 mm/min, 50 mm span; 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 ²	6.19 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	48.0 kJ/m ²	22.8 ft-lb/in ²	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 ⁻⁸ mm ³ /N-M	165 x 10 ⁻¹⁰ in ³ -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 -	@Temperature -40.0 -	

Thermal Properties	40.0 °C Metric	104 °F English	Comments
	56.0 µm/m-°C @Temperature -40.0 - 40.0 °C	31.1 µin/in-°F @Temperature -40.0 - 104 °F	ISO 11359-2
	56.0 µm/m-°C @Temperature 23.0 - 60.0 °C	31.1 µin/in-°F @Temperature 73.4 - 140 °F	ISO 11359-2
CTE, linear, Transverse to Flow	55.8 µm/m-°C @Temperature -40.0 - 40.0 °C	31.0 µin/in-°F @Temperature -40.0 - 104 °F	ASTM E 831
	56.0 µm/m-°C @Temperature -40.0 - 40.0 °C	31.1 µin/in-°F @Temperature -40.0 - 104 °F	ISO 11359-2
	56.0 µm/m-°C @Temperature 23.0 - 60.0 °C	31.1 µin/in-°F @Temperature 73.4 - 140 °F	ISO 11359-2
Deflection Temperature at 0.46 MPa (66 psi)	146 °C	295 °F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	145 °C @Thickness 3.20 mm	293 °F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	140 °C	284 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	140 °C @Thickness 3.20 mm	284 °F @Thickness 0.126 in	unannealed; ASTM D648

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