

SABIC Innovative Plastics LNP LUBRICOMP DFL23 PC (Asia Pacific)

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP* Lubricomp* DFL23 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-DFL23-PC-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Density	1.38 g/cc	0.0499 lb/in ³	ASTM D792
	1.38 g/cc	0.0499 lb/in ³	ISO 1183
Moisture Absorption	0.100 %	0.100 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.0038 cm/cm	0.0038 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	
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	
Linear Mold Shrinkage, Transverse	0.0060 cm/cm	0.0060 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	67.0 MPa	9720 psi	ASTM D638
	88.0 MPa	12800 psi	ISO 527
Tensile Strength, Yield	88.0 MPa	12800 psi	ASTM D638
	88.0 MPa	12800 psi	ISO 527
Elongation at Break	3.0 %	3.0 %	ISO 527
	3.5 %	3.5 %	ASTM D638
Elongation at Yield	2.9 %	2.9 %	ISO 527
	3.1 %	3.1 %	ASTM D638
Tensile Modulus	5.33 GPa	773 ksi	1 mm/min; ISO 527

Mechanical Properties	5.51 GPa Metric	799 ksi English	50 mm/min; ASTM D638 Comments
Flexural Strength	137 MPa	19900 psi	ASTM D790
	142 MPa	20600 psi	ISO 178
Flexural Modulus	4.82 GPa	699 ksi	ASTM D790
	5.10 GPa	740 ksi	ISO 178
Izod Impact, Notched	1.54 J/cm	2.89 ft-lb/in	ASTM D256
Izod Impact, Unnotched	7.58 J/cm	14.2 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)	44.0 kJ/m ²	20.9 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	7.00 J	5.16 ft-lb	Multiaxial Impact; ISO 6603
Coefficient of Friction, Dynamic	0.49	0.49	ASTM D3702 Modified
Coefficient of Friction, Static	0.54	0.54	ASTM D3702 Modified
K (wear) Factor	326 x 10 ⁻⁸ mm ³ /N-M	162 x 10 ⁻¹⁰ in ³ -min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	46.8 µm/m-°C	26.0 µin/in-°F	ASTM E 831
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
	47.0 µm/m-°C	26.1 µin/in-°F	ISO 11359-2
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
CTE, linear, Transverse to Flow	43.0 µm/m-°C	23.9 µin/in-°F	ISO 11359-2
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
	43.2 µm/m-°C	24.0 µin/in-°F	ASTM E 831
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
Deflection Temperature at 0.46 MPa (66 psi)	145 °C	293 °F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	145 °C	293 °F	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648

Thermal Properties (204 psi)	Metric	English	Comments
Temperature at 1.8 MPa	140 °C	284 °F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	

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