

SABIC Innovative Plastics LNP LUBRICOMP DFL38 PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP* Lubricomp* DFL-4038 is a Polycarbonate containing 40% Glass Fiber, 15% PTFE. Added features include: Internally Lubricated.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-DFL38-PC.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.70 g/cc	1.70 g/cc	ASTM D792
Density	1.69 g/cc	0.0611 lb/in ³	ASTM D792
Moisture Absorption	0.0600 %	0.0600 %	50% RH, 24 hrs; ASTM D570
	0.0900 %	0.0900 %	23°C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0010 - 0.0030 cm/cm @Time 86400 sec	0.0010 - 0.0030 in/in @Time 24.0 hour	ASTM D955
Linear Mold Shrinkage, Transverse	0.0030 - 0.0050 cm/cm @Time 86400 sec	0.0030 - 0.0050 in/in @Time 24.0 hour	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	102 MPa	14800 psi	Type I, 5 mm/min; ASTM D638
	127 MPa	18400 psi	5 mm/min; ISO 527
Tensile Strength, Yield	102 MPa	14800 psi	Type I, 5 mm/min; ASTM D638
	127 MPa	18400 psi	5 mm/min; ISO 527
Elongation at Break	1.8 %	1.8 %	Type I, 5 mm/min; ASTM D638
	1.9 %	1.9 %	5 mm/min; ISO 527
Elongation at Yield	1.8 %	1.8 %	Type I, 5 mm/min; ASTM D638
	1.9 %	1.9 %	5 mm/min; ISO 527
Tensile Modulus	11.76 GPa	1706 ksi	5 mm/min; ASTM D638
	12.88 GPa	1868 ksi	1 mm/min; ISO 527
Flexural Strength	192 MPa	27800 psi	ISO 178
	196 MPa	28400 psi	1.3 mm/min, 50 mm span; ASTM D790

Flexural Yield Strength Mechanical Properties	196 MPa Metric	28400 psi English	1.3 mm/min, 50 mm span; ASTM D790 Comments
Flexural Modulus	11.56 GPa	1677 ksi	2 mm/min; ISO 178
	12.1 GPa	1750 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	1.38 J/cm	2.59 ft-lb/in	ASTM D256
Izod Impact, Unnotched	6.47 J/cm	12.1 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)	42.0 kJ/m ²	20.0 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	17.0 J @Temperature 23.0 °C	12.5 ft-lb @Temperature 73.4 °F	ASTM D3763
Coefficient of Friction, Dynamic	0.48	0.48	ASTM D3702 Modified
Coefficient of Friction, Static	0.51	0.51	ASTM D3702 Modified
K (wear) Factor	46.3 x 10 ⁻⁸ mm ³ /N-M	23.0 x 10 ⁻¹⁰ in ³ -min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	29.0 µm/m-°C @Temperature -30.0 - 30.0 °C	16.1 µin/in-°F @Temperature -22.0 - 86.0 °F	ASTM D696
CTE, linear, Transverse to Flow	39.0 µm/m-°C @Temperature -30.0 - 30.0 °C	21.7 µin/in-°F @Temperature -22.0 - 86.0 °F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	145 °C	293 °F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	143 °C @Thickness 3.20 mm	289 °F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	138 °C	280 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	137 °C @Thickness 3.20 mm	279 °F @Thickness 0.126 in	unannealed; ASTM D648

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