

SABIC Innovative Plastics LNP LUBRICOMP DFL42 PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP* Lubricomp* DFL-4042 a compound based on Polycarbonate resin containing 10% Glass Fiber, 20% PTFE. Added features include:
Internally Lubricated.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-DFL42-PC.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.42 g/cc	1.42 g/cc	ASTM D792
Density	1.42 g/cc	0.0513 lb/in ³	ASTM D792
Moisture Absorption	0.110 %	0.110 %	50% RH, 24 hrs; ASTM D570
	0.160 %	0.160 %	23°C / 50% RH; ISO 62
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	0.0060 - 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	64.0 MPa	9280 psi	5 mm/min; ISO 527
	66.0 MPa	9570 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	65.0 MPa	9430 psi	5 mm/min; ISO 527
	67.0 MPa	9720 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	3.5 %	3.5 %	5 mm/min; ISO 527
	3.6 %	3.6 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	3.0 %	3.0 %	5 mm/min; ISO 527
	3.1 %	3.1 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	4.35 GPa	631 ksi	1 mm/min; ISO 527
	4.41 GPa	640 ksi	50 mm/min; ASTM D638
Flexural Strength	108 MPa	15700 psi	ISO 178
	111 MPa	16100 psi	1.3 mm/min, 50 mm span; ASTM D790

Mechanical Properties	Metric	English	Comments
Flexural Yield Strength	112 MPa	16200 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	3.95 GPa	573 ksi	2 mm/min; ISO 178
	4.09 GPa	593 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	1.13 J/cm	2.12 ft-lb/in	ASTM D256
Izod Impact, Unnotched	5.55 J/cm	10.4 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	11.0 kJ/m ²	5.23 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	35.0 kJ/m ²	16.7 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	16.0 J @Temperature 23.0 °C	11.8 ft-lb @Temperature 73.4 °F	ASTM D3763
Impact Test	3.00 J	2.21 ft-lb	Multiaxial Impact; ISO 6603
Coefficient of Friction, Dynamic	0.40	0.40	ASTM D3702 Modified
Coefficient of Friction, Static	0.50	0.50	ASTM D3702 Modified
K (wear) Factor	56.4 x 10 ⁻⁸ mm ³ /N-M	28.0 x 10 ⁻¹⁰ in ³ -min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	35.0 µm/m-°C @Temperature -30.0 - 30.0 °C	19.4 µin/in-°F @Temperature -22.0 - 86.0 °F	ASTM D696
CTE, linear, Transverse to Flow	72.0 µm/m-°C @Temperature -30.0 - 30.0 °C	40.0 µin/in-°F @Temperature -22.0 - 86.0 °F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	143 °C	289 °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)	137 °C	279 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	138 °C @Thickness 3.20 mm	280 °F @Thickness 0.126 in	unannealed; ASTM D648

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