

SABIC Innovative Plastics LNP LUBRICOMP DFL12 PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP* Lubricomp* DFL12 is a compound based on Polycarbonate resin containing 10% Glass Fiber and 5% PTFE. Added features include: Internally Lubricated.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-DFL12-PC.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.29 g/cc	1.29 g/cc	ASTM D792
Density	1.29 g/cc	0.0466 lb/in ³	ASTM D792
Moisture Absorption	0.0900 %	0.0900 %	50% RH, 24 hrs; ASTM D570
	0.130 %	0.130 %	23°C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	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 - 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	72.0 MPa	10400 psi	Type I, 5 mm/min; ASTM D638
	72.0 MPa	10400 psi	5 mm/min; ISO 527
Tensile Strength, Yield	74.0 MPa	10700 psi	5 mm/min; ISO 527
	76.0 MPa	11000 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	4.8 %	4.8 %	5 mm/min; ISO 527
	5.1 %	5.1 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	3.5 %	3.5 %	5 mm/min; ISO 527
	3.6 %	3.6 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	4.12 GPa	598 ksi	1 mm/min; ISO 527
	4.13 GPa	599 ksi	5 mm/min; ASTM D638
Flexural Strength	120 MPa	17400 psi	ISO 178
Flexural Yield Strength	132 MPa	19100 psi	1.3 mm/min, 50 mm span; ASTM D790

Mechanical Properties	Metric	English	Comments
Flexural Modulus	3.67 GPa	530 ksi	2 mm/min; ISO 178
	4.10 GPa	595 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	1.43 J/cm	2.68 ft-lb/in	ASTM D256
Izod Impact, Unnotched	8.21 J/cm	15.4 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	12.0 kJ/m ²	5.71 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	52.0 kJ/m ²	24.7 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	22.0 J	16.2 ft-lb	ASTM D3763
	@Temperature 23.0 °C	@Temperature 73.4 °F	
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	0.44	0.44	ASTM D3702 Modified
K (wear) Factor	12.1 x 10 ⁻⁸ mm ³ /N-M	6.00 x 10 ⁻¹⁰ in ³ -min/ft-lb-hr	Ring; ASTM D3702 Modified
	254 x 10 ⁻⁸ mm ³ /N-M	126 x 10 ⁻¹⁰ in ³ -min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	50.0 µm/m-°C	27.8 µin/in-°F	ASTM D696
	@Temperature -30.0 - 30.0 °C	@Temperature -22.0 - 86.0 °F	
CTE, linear, Transverse to Flow	62.0 µm/m-°C	34.4 µin/in-°F	ASTM D696
	@Temperature -30.0 - 30.0 °C	@Temperature -22.0 - 86.0 °F	
Deflection Temperature at 0.46 MPa (66 psi)	144 °C	291 °F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	144 °C	291 °F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	138 °C	280 °F	Flatw 80*10*4 sp=64mm; ISO 75/ Af
	139 °C	282 °F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	

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