

SABIC Innovative Plastics LNP LUBRICOMP DFL36HL PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP LUBRICOMP* DFL36HL is a compound based on Polycarbonate resin containing 30% Glass Fiber, 15% PTFE. Added features of this material include: Internally Lubricated, Low Extractable, Healthcare.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-DFL36HL-PC.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.59 g/cc	1.59 g/cc	ASTM D792
Density	1.59 g/cc	0.0574 lb/in ³	ASTM D792
Moisture Absorption	0.0700 %	0.0700 %	50% RH, 24 hrs; ASTM D570
	0.100 %	0.100 %	23°C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0020 - 0.0040 cm/cm	0.0020 - 0.0040 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	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	112 MPa	16200 psi	5 mm/min; ISO 527
	114 MPa	16500 psi	Type I, 5 mm/min; ASTM D638
	114 MPa	16500 psi	ASTM D638
Elongation at Break	2.7 %	2.7 %	5 mm/min; ISO 527
	2.7 %	2.7 %	ASTM D638
	3.0 %	3.0 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	2.9 %	2.9 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	8.63 GPa	1250 ksi	1 mm/min; ISO 527
	9.84 GPa	1430 ksi	50 mm/min; ASTM D638
Flexural Strength	180 MPa	26100 psi	ISO 178
	180 MPa	26100 psi	1.3 mm/min, 50 mm span; ASTM D790
	186 MPa	27000 psi	ASTM D790

Mechanical Properties	Metric	English	Comments
Flexural Modulus	8.93 GPa	1300 ksi	ASTM D790
	9.08 GPa	1320 ksi	1.3 mm/min, 50 mm span; ASTM D790
			2 mm/min; ISO 178
Izod Impact, Notched	1.72 J/cm	3.22 ft-lb/in	ASTM D256
Izod Impact, Unnotched	8.33 J/cm	15.6 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	16.0 kJ/m ²	7.61 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	833 kJ/m ²	396 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	25.0 J	18.4 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	0.52	0.52	ASTM D3702 Modified
Coefficient of Friction, Static	0.54	0.54	ASTM D3702 Modified
K (wear) Factor	82.6 x 10 ⁻⁸ mm ³ /N-M	41.0 x 10 ⁻¹⁰ in ³ -min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	26.7 µm/m-°C	14.8 µin/in-°F	ASTM D696
	@Temperature -30.0 - 30.0 °C	@Temperature -22.0 - 86.0 °F	
CTE, linear, Transverse to Flow	51.7 µm/m-°C	28.7 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)	149 °C	300 °F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	148 °C	298 °F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	145 °C	293 °F	Flatw 80*10*4 sp=64mm; ISO 75/ Af
	143 °C	289 °F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	

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