

SABIC Innovative Plastics LNP LUBRICOMP DFL36ELH PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP* Lubricomp* DFL36ELH is a compound based on Polycarbonate resin containing 30% Glass Fiber, 15% PTFE. Added features of this material include: Internally Lubricated, Low Extractible, Easy Molding, Healthcare.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-DFL36ELH-PC.php

Physical Properties	Metric	English	Comments
Density	1.55 g/cc	0.0560 lb/in ³	ASTM D792
	1.55 g/cc	0.0560 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.0010 - 0.0030 cm/cm	0.0010 - 0.0030 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0021 cm/cm	0.0021 in/in	ISO 294
	@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	
	0.0071 cm/cm	0.0071 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	112 MPa	16200 psi	ASTM D638
	113 MPa	16400 psi	ISO 527
Tensile Strength, Yield	113 MPa	16400 psi	ASTM D638
	114 MPa	16500 psi	ISO 527
Elongation at Break	2.5 %	2.5 %	ASTM D638
	2.6 %	2.6 %	ISO 527
Elongation at Yield	2.4 %	2.4 %	ASTM D638
	2.4 %	2.4 %	ISO 527
Tensile Modulus	9.28 GPa	1350 ksi	1 mm/min; ISO 527
	9.65 GPa	1400 ksi	50 mm/min; ASTM D638

Flexural Strength Mechanical Properties	179 MPa Metric	26000 psi English	ASTM D790 Comments
	180 MPa	26100 psi	ISO 178
Flexural Modulus	8.70 GPa	1260 ksi	ISO 178
	8.96 GPa	1300 ksi	ASTM D790
Izod Impact, Notched	1.76 J/cm	3.30 ft-lb/in	ASTM D256
Izod Impact, Unnotched	8.54 J/cm	16.0 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	17.0 kJ/m ²	8.09 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	51.0 kJ/m ²	24.3 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	21.0 J	15.5 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	0.57	0.57	ASTM D3702 Modified
Coefficient of Friction, Static	0.49	0.49	ASTM D3702 Modified
K (wear) Factor	54.4 x 10 ⁻⁸ mm ³ /N-M	27.0 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	30.0 µm/m-°C	16.7 µin/in-°F	ISO 11359-2
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
	30.6 µm/m-°C	17.0 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)	149 °C	300 °F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	147 °C	297 °F	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	144 °C	291 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af

Thermal Properties	Metric	English	Comments
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648

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