

SABIC Innovative Plastics LNP LUBRICOMP DFL36EU PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP* Lubricomp* DFL36EU is a compound based on Polycarbonate resin containing 30% Glass Fiber, 15% PTFE. Added features include:
Internally Lubricated, Easy Molding and UV Stabilized.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-DFL36EU-PC.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.56 g/cc	1.56 g/cc	ASTM D792
Density	1.56 g/cc	0.0564 lb/in ³	ASTM D792
Moisture Absorption	0.0800 %	0.0800 %	50% RH, 24 hrs; ASTM D570
	0.110 %	0.110 %	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	0.0050 - 0.0070 cm/cm @Time 86400 sec	0.0050 - 0.0070 in/in @Time 24.0 hour	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	113 MPa	16400 psi	5 mm/min; ISO 527
	116 MPa	16800 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	2.6 %	2.6 %	5 mm/min; ISO 527
	2.7 %	2.7 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	8.68 GPa	1260 ksi	1 mm/min; ISO 527
	9.22 GPa	1340 ksi	5 mm/min; ASTM D638
Flexural Strength	175 MPa	25400 psi	ISO 178
	189 MPa	27400 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Yield Strength	190 MPa	27600 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	8.33 GPa	1210 ksi	2 mm/min; ISO 178
	8.91 GPa	1290 ksi	1.3 mm/min, 50 mm span; ASTM D790

Mechanical Properties	Metric	English	Comments
Izod Impact, Unnotched	7.09 J/cm	13.3 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)	51.0 kJ/m ²	24.3 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	5.00 J	3.69 ft-lb	Multiaxial Impact; ISO 6603
Coefficient of Friction, Dynamic	0.47	0.47	ASTM D3702 Modified
Coefficient of Friction, Static	0.51	0.51	ASTM D3702 Modified
K (wear) Factor	4.03 x 10 ⁻⁸ mm ³ /N-M	2.00 x 10 ⁻¹⁰ in ³ -min/ft-lb-hr	Ring; ASTM D3702 Modified
	60.4 x 10 ⁻⁸ mm ³ /N-M	30.0 x 10 ⁻¹⁰ in ³ -min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	54.0 µm/m-°C @Temperature -30.0 - 30.0 °C	30.0 µin/in-°F @Temperature -22.0 - 86.0 °F	ASTM D696
CTE, linear, Transverse to Flow	43.0 µm/m-°C @Temperature -30.0 - 30.0 °C	23.9 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
	146 °C @Thickness 3.20 mm	295 °F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	141 °C	286 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	141 °C @Thickness 3.20 mm	286 °F @Thickness 0.126 in	unannealed; ASTM D648

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