

SABIC Innovative Plastics LNP Lubricomp DCL36 PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP LUBRICOMP* DCL36 is a compound based on Polycarbonate resin containing Carbon Fiber, PTFE. Added features of this material include: Electrically Conductive. This data was supplied by SABIC-IP for the Americas region.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-Lubricomp-DCL36-PC.php

Physical Properties	Metric	English	Comments
Density	1.43 g/cc	0.0517 lb/in ³	ASTM D 792
Linear Mold Shrinkage, Flow	0.00030 - 0.0010 cm/cm @Time 86400 sec	0.00030 - 0.0010 in/in @Time 24.0 hour	ASTM D 955
Linear Mold Shrinkage, Transverse	0.0030 - 0.0050 cm/cm @Time 86400 sec	0.0030 - 0.0050 in/in @Time 24.0 hour	ASTM D 955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	158 MPa	22900 psi	ASTM D 638
Elongation at Break	1.7 %	1.7 %	ASTM D 638
Flexural Strength	241 MPa	35000 psi	ASTM D 790
Flexural Modulus	17.92 GPa	2599 ksi	ASTM D 790
Izod Impact, Notched	1.22 J/cm @Temperature 23.0 °C	2.29 ft-lb/in @Temperature 73.4 °F	ASTM D 256
Izod Impact, Unnotched	5.34 J/cm @Temperature 23.0 °C	10.0 ft-lb/in @Temperature 73.4 °F	ASTM D 4812
Coefficient of Friction, Dynamic	0.43	0.43	ASTM D 3702 Modified
Coefficient of Friction, Static	0.34	0.34	ASTM D 3702 Modified
K (wear) Factor	76.5 x 10 ⁻⁸ mm ³ /N-M	38.0 x 10 ⁻¹⁰ in ³ -min/ft-lb-hr	Washer; ASTM D 3702 Modified

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	145 °C @Thickness 3.20 mm	293 °F @Thickness 0.126 in	unannealed; ASTM D 648

Electrical Properties	Metric	English	Comments
Volume Resistivity	10000 ohm-cm - 1e+05	10000 ohm-cm - 1e+05	ASTM D 257
Surface Resistance	1000 - 10000 ohm	1000 - 10000 ohm	ASTM D 257

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