

SABIC Innovative Plastics LNP LUBRICOMP DCP32 PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP* Lubricomp* DCP32 is a compound based on Polycarbonate resin containing 15% PTFE/Silicone, 10% Carbon Fiber. Added features of this material include: Electrically Conductive, Internally Lubricated.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-DCP32-PC.php

Physical Properties	Metric	English	Comments
Density	1.30 g/cc	0.0470 lb/in ³	ASTM D792
	1.30 g/cc	0.0470 lb/in ³	ISO 1183
Moisture Absorption	0.100 %	0.100 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.0030 - 0.0050 cm/cm	0.0030 - 0.0050 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0043 cm/cm	0.0043 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0040 - 0.0060 cm/cm	0.0040 - 0.0060 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0054 cm/cm	0.0054 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	91.0 MPa	13200 psi	ASTM D638
	93.0 MPa	13500 psi	ISO 527
Tensile Strength, Yield	91.0 MPa	13200 psi	ASTM D638
	93.0 MPa	13500 psi	ISO 527
Elongation at Break	2.1 %	2.1 %	ISO 527
	2.1 %	2.1 %	ASTM D638
Elongation at Yield	2.1 %	2.1 %	ISO 527
	2.1 %	2.1 %	ASTM D638
Tensile Modulus	7.47 GPa	1080 ksi	1 mm/min; ISO 527

Mechanical Properties	7.58 GPa Metric	1100 ksi English	50 mm/min; ASTM D638 Comments
Flexural Strength	137 MPa	19900 psi	ASTM D790
	142 MPa	20600 psi	ISO 178
Flexural Modulus	6.20 GPa	899 ksi	ASTM D790
	6.70 GPa	972 ksi	ISO 178
Izod Impact, Notched	0.900 J/cm	1.69 ft-lb/in	ASTM D256
Izod Impact, Unnotched	4.43 J/cm	8.30 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	9.00 kJ/m ²	4.28 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	28.0 kJ/m ²	13.3 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	18.0 J	13.3 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	5.00 J	3.69 ft-lb	Multiaxial Impact; ISO 6603
Coefficient of Friction, Dynamic	0.35	0.35	ASTM D3702 Modified
Coefficient of Friction, Static	0.36	0.36	ASTM D3702 Modified
K (wear) Factor	98.7 x 10 ⁻⁸ mm ³ /N-M	49.0 x 10 ⁻¹⁰ in ³ -min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	41.0 µm/m-°C	22.8 µin/in-°F	ISO 11359-2
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
	41.4 µm/m-°C	23.0 µin/in-°F	ASTM E 831
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
CTE, linear, Transverse to Flow	63.0 µm/m-°C	35.0 µin/in-°F	ISO 11359-2
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
	63.0 µm/m-°C	35.0 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)	148 °C	298 °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

Thermal Properties (204 psi)	Metric	English	Comments
Temperature at 1.8 MPa	143 °C	289 °F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	

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