

SABIC Innovative Plastics LNP LUBRICOMP DCP32 PC (Asia Pacific)

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP* Lubricomp* DCP32 is a compound based on Polycarbonate resin containing PTFE, Carbon Fiber, Silicone. 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-Asia-Pacific.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	
	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	
	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
	92.0 MPa	13300 psi	Type I, 5 mm/min; ASTM D638
	93.0 MPa	13500 psi	ISO 527
	93.0 MPa	13500 psi	5 mm/min; ISO 527
Tensile Strength, Yield	91.0 MPa	13200 psi	ASTM D638
	92.0 MPa	13300 psi	Type I, 5 mm/min; ASTM D638
	93.0 MPa	13500 psi	ISO 527
	93.0 MPa	13500 psi	5 mm/min; ISO 527
Elongation at Break	2.1 %	2.1 %	ASTM D638

Mechanical Properties	2.1 % Metric	2.1 % English	ISO 527 Comments
	2.2 %	2.2 %	5 mm/min; ISO 527
	2.2 %	2.2 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	2.1 %	2.1 %	ASTM D638
	2.1 %	2.1 %	ISO 527
	2.2 %	2.2 %	5 mm/min; ISO 527
	2.2 %	2.2 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	7.47 GPa	1080 ksi	1 mm/min; ISO 527
	7.58 GPa	1100 ksi	50 mm/min; ASTM D638
Flexural Strength	137 MPa	19900 psi	ASTM D790
	139 MPa	20200 psi	1.3 mm/min, 50 mm span; ASTM D790
	142 MPa	20600 psi	ISO 178
Flexural Modulus	6.20 GPa	899 ksi	ASTM D790
	6.21 GPa	901 ksi	1.3 mm/min, 50 mm span; ASTM D790
	6.70 GPa	972 ksi	ISO 178
	6.70 GPa	972 ksi	2 mm/min; 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
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Thermal Properties CTE, linear, Parallel to Flow	41.0 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$ Metric	22.8 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$ English	Comments ISO 11359-2
	@Temperature -40.0 - 40.0 $^\circ\text{C}$	@Temperature -40.0 - 104 $^\circ\text{F}$	
	41.4 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	23.0 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	ASTM E 831
	@Temperature -40.0 - 40.0 $^\circ\text{C}$	@Temperature -40.0 - 104 $^\circ\text{F}$	
CTE, linear, Transverse to Flow	63.0 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	35.0 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	ASTM E 831
	@Temperature -40.0 - 40.0 $^\circ\text{C}$	@Temperature -40.0 - 104 $^\circ\text{F}$	
	63.0 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	35.0 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	ISO 11359-2
	@Temperature -40.0 - 40.0 $^\circ\text{C}$	@Temperature -40.0 - 104 $^\circ\text{F}$	
Deflection Temperature at 0.46 MPa (66 psi)	148 $^\circ\text{C}$	298 $^\circ\text{F}$	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	147 $^\circ\text{C}$	297 $^\circ\text{F}$	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	144 $^\circ\text{C}$	291 $^\circ\text{F}$	Flatw 80*10*4 sp=64mm; ISO 75/Af
	143 $^\circ\text{C}$	289 $^\circ\text{F}$	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	

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