

SABIC Innovative Plastics LNP STAT-KON DX06500 PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP* STAT-KON* DX06500 is a compound based on Polycarbonate resin containing PTFE, Carbon Fiber, Glass Fiber. Added features of this material include: Electrically Conductive, Wear Resistant, Easy Molding.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-STAT-KON-DX06500-PC.php

Physical Properties	Metric	English	Comments
Density	1.50 g/cc	0.0542 lb/in ³	ASTM D792
	1.50 g/cc	0.0542 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.0028 cm/cm	0.0028 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.0020 - 0.0040 cm/cm	0.0020 - 0.0040 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0047 cm/cm	0.0047 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.0040 - 0.0060 cm/cm	0.0040 - 0.0060 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	117 MPa	17000 psi	ISO 527
	119 MPa	17300 psi	ASTM D638
Tensile Strength, Yield	117 MPa	17000 psi	ISO 527
	119 MPa	17300 psi	ASTM D638
Elongation at Break	1.7 %	1.7 %	ASTM D638
	1.7 %	1.7 %	ISO 527
Elongation at Yield	1.7 %	1.7 %	ASTM D638
	1.7 %	1.7 %	ISO 527
Tensile Modulus	12.33 GPa	1788 ksi	1 mm/min; ISO 527
	13.78 GPa	1999 ksi	50 mm/min; ASTM D638

Flexural Strength Mechanical Properties	177 MPa Metric	25700 psi English	ISO 178 Comments
	186 MPa	27000 psi	ASTM D790
Flexural Modulus	10.6 GPa	1540 ksi	ISO 178
	11.72 GPa	1700 ksi	ASTM D790
Izod Impact, Notched	1.06 J/cm	1.99 ft-lb/in	ASTM D256
Izod Impact, Unnotched	6.19 J/cm	11.6 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	8.00 kJ/m ²	3.81 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	29.0 kJ/m ²	13.8 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	14.0 J	10.3 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	4.00 J	2.95 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	41.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	22.8 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ISO 11359-2
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
	41.4 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	23.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM E 831
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
CTE, linear, Transverse to Flow	43.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	23.9 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ISO 11359-2
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
	43.2 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	24.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM E 831
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
Deflection Temperature at 0.46 MPa (66 psi)	149 $\text{Å}^\circ\text{C}$	300 $\text{Å}^\circ\text{F}$	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	147 $\text{Å}^\circ\text{C}$	297 $\text{Å}^\circ\text{F}$	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	143 $\text{Å}^\circ\text{C}$	289 $\text{Å}^\circ\text{F}$	Flatw 80*10*4 sp=64mm; ISO 75/Af
	141 $\text{Å}^\circ\text{C}$	286 $\text{Å}^\circ\text{F}$	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
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Electrical Properties

Metric 1.00e+6 ohm

English 1.00e+6 ohm

Comments

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