

SABIC Innovative Plastics LNP STAT-KON DEP42E PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP STAT-KON* DEP42E is a compound based on Polycarbonate resin containing 10% Carbon Fiber, 20% PTFE/Silicone. Added features of this material include: Easy Molding. Electrically Conductive, Wear Resistant

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-STAT-KON-DEP42E-PC.php

Physical Properties	Metric	English	Comments
Density	1.32 g/cc	0.0477 lb/in ³	ASTM D792
Moisture Absorption	0.150 %	0.150 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.0019 cm/cm	0.0019 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.0020 cm/cm	0.0020 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0050 cm/cm	0.0050 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0051 cm/cm	0.0051 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	104 MPa	15100 psi	ASTM D638
	105 MPa	15200 psi	ISO 527
Elongation at Break	1.9 %	1.9 %	ISO 527
	2.0 %	2.0 %	ASTM D638
Tensile Modulus	8.58 GPa	1240 ksi	1 mm/min; ISO 527
	8.75 GPa	1270 ksi	50 mm/min; ASTM D638
Flexural Strength	160 MPa	23200 psi	ISO 178
	161 MPa	23400 psi	ASTM D790
Flexural Modulus	7.65 GPa	1110 ksi	ASTM D790
	8.60 GPa	1250 ksi	ISO 178

Izod Impact, Notched Mechanical Properties	0.810 J/cm Metric	1.52 ft-lb/in English	ASTM D256 Comments
Izod Impact, Unnotched	5.26 J/cm	9.85 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)	26.0 kJ/m ²	12.4 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	12.0 J	8.85 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	32.5 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	18.1 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM E 831
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
	32.5 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	18.1 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ISO 11359-2
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
CTE, linear, Transverse to Flow	34.3 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	19.1 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM E 831
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
	34.3 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	19.1 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ISO 11359-2
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
Deflection Temperature at 0.46 MPa (66 psi)	146 $\text{Å}^\circ\text{C}$	295 $\text{Å}^\circ\text{F}$	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	145 $\text{Å}^\circ\text{C}$	293 $\text{Å}^\circ\text{F}$	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	142 $\text{Å}^\circ\text{C}$	288 $\text{Å}^\circ\text{F}$	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
Surface Resistance	100 - 1.00e+6 ohm	100 - 1.00e+6 ohm	ASTM D257

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