

SABIC Innovative Plastics LNP STAT-KON DD000P PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP* STAT-KON* DD000P is a compound based on Polycarbonate resin containing Carbon. Added features of this material include:

Electrically Conductive, Exceptional Processing.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-STAT-KON-DD000P-PC.php

Physical Properties	Metric	English	Comments
Density	1.23 g/cc	0.0444 lb/in ³	ASTM D792
	1.23 g/cc	0.0444 lb/in ³	ISO 1183
Moisture Absorption	0.100 %	0.100 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.0060 - 0.0080 cm/cm	0.0060 - 0.0080 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0074 cm/cm	0.0074 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0070 - 0.0090 cm/cm	0.0070 - 0.0090 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0084 cm/cm	0.0084 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	49.0 MPa	7110 psi	ASTM D638
	51.0 MPa	7400 psi	ISO 527
Tensile Strength, Yield	57.0 MPa	8270 psi	ASTM D638
	57.0 MPa	8270 psi	ISO 527
Elongation at Break	9.9 %	9.9 %	ISO 527
	20.1 %	20.1 %	ASTM D638
Elongation at Yield	4.8 %	4.8 %	ASTM D638
	4.8 %	4.8 %	ISO 527
Tensile Modulus	2.49 GPa	361 ksi	1 mm/min; ISO 527

Mechanical Properties	2.75 GPa Metric	399 ksi English	50 mm/min; ASTM D638 Comments
Flexural Strength	78.0 MPa	11300 psi	ISO 178
Flexural Modulus	2.40 GPa	348 ksi	ISO 178
	2.75 GPa	399 ksi	ASTM D790
Izod Impact, Notched	2.34 J/cm	4.38 ft-lb/in	ASTM D256
Izod Impact, Unnotched	22.26 J/cm	41.70 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	20.0 kJ/m ²	9.52 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	205 kJ/m ²	97.5 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	40.0 J	29.5 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	40.0 J	29.5 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	66.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	36.7 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ISO 11359-2
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
	66.6 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	37.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	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	64.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	35.6 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ISO 11359-2
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
	64.8 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	36.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	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)	135 $\text{Å}^\circ\text{C}$	275 $\text{Å}^\circ\text{F}$	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	126 $\text{Å}^\circ\text{C}$	259 $\text{Å}^\circ\text{F}$	Flatw 80*10*4 sp=64mm; ISO 75/Af
	@Thickness 3.20 mm	@Thickness 0.126 in	

Electrical Properties	Metric	English	Comments
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Electrical Properties

Metric^{100 ohm}

English^{100 ohm}

Comments

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