

SABIC Innovative Plastics LNP STAT-KON DD000 PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP STAT-KON* DD000 is a compound based on Polycarbonate resin containing Carbon Powder. Added feature of this material is:
Electrically Conductive.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-STAT-KON-DD000-PC.php

Physical Properties	Metric	English	Comments
Density	1.24 g/cc	0.0448 lb/in ³	ASTM D792
Moisture Absorption	0.140 %	0.140 %	50% RH, 24 hrs; ASTM D570
	0.250 %	0.250 %	23°C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0080 cm/cm	0.0080 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	
Linear Mold Shrinkage, Transverse	0.0080 cm/cm	0.0080 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0082 cm/cm	0.0082 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	53.0 MPa	7690 psi	ISO 527
	56.0 MPa	8120 psi	ASTM D638
Tensile Strength, Yield	60.0 MPa	8700 psi	ISO 527
	62.0 MPa	8990 psi	ASTM D638
Elongation at Break	8.8 %	8.8 %	ISO 527
	9.5 %	9.5 %	ASTM D638
Elongation at Yield	4.4 %	4.4 %	ISO 527
	4.9 %	4.9 %	ASTM D638
Tensile Modulus	2.68 GPa	389 ksi	50 mm/min; ASTM D638

Mechanical Properties	2.90 GPa Metric	421 ksi English	1 mm/min: ISO 527 Comments
Flexural Strength	102 MPa	14800 psi	ASTM D790
	102 MPa	14800 psi	ISO 178
Flexural Modulus	2.89 GPa	419 ksi	ASTM D790
	3.10 GPa	450 ksi	ISO 178
Izod Impact, Notched	0.640 J/cm	1.20 ft-lb/in	ASTM D256
Izod Impact, Unnotched	12.17 J/cm	22.80 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	6.00 kJ/m ²	2.86 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	98.0 kJ/m ²	46.6 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	8.00 J	5.90 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	138 Â°C @Thickness 3.20 mm	280 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	127 Â°C	261 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	127 Â°C @Thickness 3.20 mm	261 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Flammability, UL94	HB @Thickness 1.50 mm	HB @Thickness 0.0591 in	UL 94 by SABIC-IP

Electrical Properties	Metric	English	Comments
Surface Resistance	100 - 1.00e+6 ohm	100 - 1.00e+6 ohm	ASTM D257

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