

SABIC Innovative Plastics LNP STAT-KON DD0009PC PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP STAT-KON* DD0009PC is a compound based on Polycarbonate resin containing Carbon Powder. Added features of this material include: Electrically Conductive, Flame Retardant.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-STAT-KON-DD0009PC-PC.php

Physical Properties	Metric	English	Comments
Density	1.29 g/cc	0.0466 lb/in ³	ASTM D792
Moisture Absorption	0.140 %	0.140 %	50% RH, 24 hrs; ASTM D570
	0.230 %	0.230 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0077 cm/cm	0.0077 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.0080 cm/cm	0.0080 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0079 cm/cm	0.0079 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.0080 cm/cm	0.0080 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	51.0 MPa	7400 psi	ISO 527
	53.0 MPa	7690 psi	ASTM D638
Tensile Strength, Yield	59.0 MPa	8560 psi	ISO 527
	61.0 MPa	8850 psi	ASTM D638
Elongation at Break	11 %	11 %	ASTM D638
	15.3 %	15.3 %	ISO 527
Elongation at Yield	4.6 %	4.6 %	ISO 527
	4.9 %	4.9 %	ASTM D638
Tensile Modulus	2.62 GPa	380 ksi	50 mm/min; ASTM D638

Mechanical Properties	2.70 GPa Metric	392 ksi English	1 mm/min: ISO 527 Comments
Flexural Strength	98.0 MPa	14200 psi	ISO 178
	101 MPa	14600 psi	ASTM D790
Flexural Modulus	2.82 GPa	409 ksi	ASTM D790
	2.90 GPa	421 ksi	ISO 178
Izod Impact, Notched	1.19 J/cm	2.23 ft-lb/in	ASTM D256
Izod Impact, Unnotched	25.31 J/cm	47.42 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	11.0 kJ/m ²	5.23 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	137 kJ/m ²	65.2 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	15.0 J	11.1 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	35.0 J	25.8 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	140 Å°C @Thickness 3.20 mm	284 Å°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	130 Å°C	266 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	128 Å°C @Thickness 3.20 mm	262 Å°F @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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