

SABIC Innovative Plastics LNP STAT-KON DD0009P PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP STAT-KON* DD0009P is a compound based on Polycarbonate resin containing Carbon Powder. Added features of this material include: Electrically Conductive, Exceptional Processing, Flame Retardant.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-STAT-KON-DD0009P-PC.php

Physical Properties	Metric	English	Comments
Density	1.29 g/cc	0.0466 lb/in ³	ASTM D792
Moisture Absorption	0.130 %	0.130 %	50% RH, 24 hrs; ASTM D570
	0.230 %	0.230 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0078 cm/cm	0.0078 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	0.0080 cm/cm	0.0080 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0080 cm/cm	0.0080 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
	54.0 MPa	7830 psi	ASTM D638
Tensile Strength, Yield	59.0 MPa	8560 psi	ISO 527
	64.0 MPa	9280 psi	ASTM D638
Elongation at Break	9.5 %	9.5 %	ISO 527
	10 %	10 %	ASTM D638
Elongation at Yield	4.4 %	4.4 %	ISO 527
	4.8 %	4.8 %	ASTM D638
Tensile Modulus	2.62 GPa	380 ksi	50 mm/min; ASTM D638

Mechanical Properties	2.80 GPa Metric	406 ksi English	1 mm/min: ISO 527 Comments
Flexural Strength	102 MPa	14800 psi	ASTM D790
	102 MPa	14800 psi	ISO 178
Flexural Modulus	2.82 GPa	409 ksi	ASTM D790
	3.00 GPa	435 ksi	ISO 178
Izod Impact, Notched	1.14 J/cm	2.14 ft-lb/in	ASTM D256
Izod Impact, Unnotched	20.93 J/cm	39.21 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	9.00 kJ/m ²	4.28 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	134 kJ/m ²	63.8 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
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)	128 Å°C	262 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	130 Å°C @Thickness 3.20 mm	266 Å°F @Thickness 0.126 in	unannealed; ASTM D648
Flammability, UL94	V-1 @Thickness 1.50 mm	V-1 @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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