

SABIC Innovative Plastics LNP STAT-KON DD0009 PC (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP* Stat-kon* DD0009 is a compound based on Polycarbonate resin containing Flame Retardant, 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-DD0009-PC-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Density	1.32 g/cc	0.0477 lb/in ³	ASTM D792
Moisture Absorption	0.180 %	0.180 %	50% RH, 24 hrs; ASTM D570
	0.270 %	0.270 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0075 cm/cm	0.0075 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	0.0070 cm/cm	0.0070 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0072 cm/cm	0.0072 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	ASTM D638
	57.0 MPa	8270 psi	ISO 527
Tensile Strength, Yield	61.0 MPa	8850 psi	ASTM D638
	62.0 MPa	8990 psi	ISO 527
Elongation at Break	5.6 %	5.6 %	ASTM D638
	7.5 %	7.5 %	ISO 527
Elongation at Yield	1.2 %	1.2 %	ASTM D638
	4.1 %	4.1 %	ISO 527
Tensile Modulus	2.81 GPa	408 ksi	1 mm/min; ISO 527

Mechanical Properties	Metric 2.82 GPa	English 409 ksi	Comments 50 mm/min; ASTM D638
Flexural Strength	102 MPa	14800 psi	ISO 178
	108 MPa	15700 psi	ASTM D790
Flexural Modulus	2.82 GPa	409 ksi	ASTM D790
	2.88 GPa	418 ksi	ISO 178
Izod Impact, Notched	0.680 J/cm	1.27 ft-lb/in	ASTM D256
Izod Impact, Unnotched	15.56 J/cm	29.15 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)	70.0 kJ/m ²	33.3 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	10.0 J	7.38 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	5.00 J	3.69 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	53.6 Åµm/m-Å°C	29.8 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	53.6 Åµm/m-Å°C	29.8 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
CTE, linear, Transverse to Flow	56.7 Åµm/m-Å°C	31.5 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	56.7 Åµm/m-Å°C	31.5 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
Deflection Temperature at 0.46 MPa (66 psi)	139 Å°C	282 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	141 Å°C	286 Å°F	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	131 Å°C	268 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	132 Å°C	270 Å°F	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648

Thermal Properties	Metric	English	Comments
Flammability, UL94	@Thickness 1.70 mm	@Thickness 0.0669 in	UL 94 by SABIC-IP

Electrical Properties	Metric	English	Comments
Surface Resistance	1e+05 - 1.00e+10 ohm	1e+05 - 1.00e+10 ohm	ASTM D257

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