

SABIC Innovative Plastics LNP STAT-KON DD0001 PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP STAT-KON* DD0001 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-DD0001-PC.php

Physical Properties	Metric	English	Comments
Density	1.28 g/cc	0.0462 lb/in ³	ASTM D792
Moisture Absorption	0.100 %	0.100 %	50% RH, 24 hrs; ASTM D570
	0.140 %	0.140 %	23°C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0039 cm/cm	0.0039 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.0040 cm/cm	0.0040 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0040 cm/cm	0.0040 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0040 cm/cm	0.0040 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	64.0 MPa	9280 psi	ASTM D638
	64.0 MPa	9280 psi	ISO 527
Elongation at Break	3.2 %	3.2 %	ISO 527
	3.6 %	3.6 %	ASTM D638
Tensile Modulus	3.45 GPa	500 ksi	50 mm/min; ASTM D638
	3.75 GPa	544 ksi	1 mm/min; ISO 527
Flexural Strength	103 MPa	14900 psi	ISO 178
	116 MPa	16800 psi	ASTM D790
Flexural Modulus	3.51 GPa	509 ksi	ASTM D790

Mechanical Properties	3.52 GPa Metric	511 ksi English	ISO 178 Comments
Izod Impact, Notched	0.230 J/cm	0.431 ft-lb/in	ASTM D256
Izod Impact, Unnotched	5.50 J/cm	10.3 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	2.00 kJ/m ²	0.952 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	36.0 kJ/m ²	17.1 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	1.00 J	0.738 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	52.2 Åµm/m-Å°C	29.0 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	52.2 Åµm/m-Å°C	29.0 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	52.3 Åµm/m-Å°C	29.1 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	52.4 Åµm/m-Å°C	29.1 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)	88.0 Å°C	190 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	86.0 Å°C	187 Å°F	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	82.0 Å°C	180 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	82.0 Å°C	180 Å°F	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648
Flammability, UL94	V-0	V-0	UL 94 by SABIC-IP
	@Thickness 1.70 mm	@Thickness 0.0669 in	

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

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