

SABIC Innovative Plastics LNP STAT-KON DD0009XP PC (Asia Pacific)

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP* Stat-kon* DD0009XP is a compound based on Polycarbonate resin containing Carbon Powder. Added features of this material include:Electrically Conductive, Flame Retardant. Also known as Stat-Kon* D- FR.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-STAT-KON-DD0009XP-PC-Asia-Pacific.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
Linear Mold Shrinkage, Flow	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	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	54.0 MPa	7830 psi	Type I, 5 mm/min; ASTM D638
	57.0 MPa	8270 psi	
Tensile Strength, Yield	62.0 MPa	8990 psi	Type I, 5 mm/min; ASTM D638
	62.0 MPa	8990 psi	
Elongation at Break	5.6 %	5.6 %	Type I, 5 mm/min; ASTM D638
	7.5 %	7.5 %	
Elongation at Yield	1.2 %	1.2 %	Type I, 5 mm/min; ASTM D638
	4.2 %	4.2 %	
Tensile Modulus	2.81 GPa	408 ksi	1 mm/min; ISO 527
	2.82 GPa	409 ksi	
Flexural Strength	108 MPa	15700 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Yield Strength	102 MPa	14800 psi	2 mm/min; ISO 178
Flexural Modulus	2.82 GPa	409 ksi	1.3 mm/min, 50 mm span; ASTM D790

Mechanical Properties	2.88 GPa Metric	418 ksi English	2 mm/min: ISO 178 Comments
Izod Impact, Notched	0.690 J/cm	1.29 ft-lb/in	ASTM D256
Izod Impact, Unnotched	15.49 J/cm	29.02 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	11.0 J	8.11 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	6.00 J	4.43 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	30.0 Åµm/m-Å°C	16.7 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 23.0 - 60.0 Å°C	@Temperature 73.4 - 140 Å°F	
CTE, linear, Transverse to Flow	32.0 Åµm/m-Å°C	17.8 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 23.0 - 60.0 Å°C	@Temperature 73.4 - 140 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
	133 Å°C	271 Å°F	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648
Flammability, UL94	V-0	V-0	UL 94
	@Thickness 1.70 mm	@Thickness 0.0669 in	

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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