

SABIC Innovative Plastics LNP STAT-KON CD000I PS

Category : Polymer , Thermoplastic , Polystyrene (PS)

Material Notes:

LNP* Stat-kon* CD000I is a compound based on Polystyrene resin containing Carbon Powder. Added features of this material include:
Electrically Conductive, High Impact.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-STAT-KON-CD000I-PS.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.08 g/cc	1.08 g/cc	ASTM D792
Density	1.08 g/cc	0.0390 lb/in ³	ASTM D792
Moisture Absorption	0.100 %	0.100 %	50% RH, 24 hrs; ASTM D570
	0.130 %	0.130 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0030 - 0.0070 cm/cm	0.0030 - 0.0070 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0040 - 0.0070 cm/cm	0.0040 - 0.0070 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	16.0 MPa	2320 psi	Type I, 5 mm/min; ASTM D638
	17.0 MPa	2470 psi	5 mm/min; ISO 527
Tensile Strength, Yield	23.0 MPa	3340 psi	Type I, 5 mm/min; ASTM D638
	23.0 MPa	3340 psi	5 mm/min; ISO 527
Elongation at Break	7.1 %	7.1 %	5 mm/min; ISO 527
	9.7 %	9.7 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	1.2 %	1.2 %	Type I, 5 mm/min; ASTM D638
	1.2 %	1.2 %	5 mm/min; ISO 527
Tensile Modulus	2.12 GPa	307 ksi	1 mm/min; ISO 527
	2.28 GPa	331 ksi	5 mm/min; ASTM D638
Flexural Strength	40.0 MPa	5800 psi	ISO 178
Flexural Yield Strength	42.0 MPa	6090 psi	1.3 mm/min, 50 mm span; ASTM D790

Mechanical Properties	Metric	English	Comments
Flexural Modulus	2.10 GPa	300 ksi	2 mm/min; ISO 178
	2.28 GPa	331 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.820 J/cm	1.54 ft-lb/in	ASTM D256
Izod Impact, Unnotched	7.44 J/cm	13.9 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	5.00 kJ/m ²	2.38 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	31.0 kJ/m ²	14.8 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	18.0 J @Temperature 23.0 Â°C	13.3 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Impact Test	15.0 J	11.1 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	98.0 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	54.4 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
CTE, linear, Transverse to Flow	107 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	59.4 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
Deflection Temperature at 0.46 MPa (66 psi)	87.0 Â°C	189 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	87.0 Â°C @Thickness 3.20 mm	189 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	78.0 Â°C	172 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/ Af
	75.0 Â°C @Thickness 3.20 mm	167 Â°F @Thickness 0.126 in	unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Surface Resistance	3.0 - 5.0 ohm	3.0 - 5.0 ohm	ASTM D257

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