

SABIC Innovative Plastics LNP STAT-KON DE003P PC (Asia Pacific)

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP STAT-KON* DE003P is a compound based on Polycarbonate resin containing Carbon Fiber. Added features of this material include:
Electrically Conductive.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-STAT-KON-DE003P-PC-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Density	1.25 g/cc	0.0452 lb/in ³	ASTM D792
Moisture Absorption	0.150 %	0.150 %	50% RH, 24 hrs; ASTM D570
	0.400 %	0.400 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.00040 - 0.0010 cm/cm	0.00040 - 0.0010 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.00040 - 0.0013 cm/cm	0.00040 - 0.0013 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0030 - 0.0040 cm/cm	0.0030 - 0.0040 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0032 - 0.0041 cm/cm	0.0032 - 0.0041 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	110 MPa	16000 psi	ISO 527
	121 MPa	17500 psi	ASTM D638
Elongation at Break	1.4 %	1.4 %	ISO 527
	1.7 %	1.7 %	ASTM D638
Tensile Modulus	9.88 GPa	1430 ksi	1 mm/min; ISO 527
	11.16 GPa	1619 ksi	50 mm/min; ASTM D638
Flexural Strength	184 MPa	26700 psi	ISO 178
	193 MPa	28000 psi	ASTM D790
Flexural Modulus	9.77 GPa	1420 ksi	ISO 178

Mechanical Properties	Metric 9.92 GPa	English 1440 ksi	Comments ASTM D790
Izod Impact, Notched	0.770 J/cm	1.44 ft-lb/in	ASTM D256
Izod Impact, Unnotched	4.25 J/cm	7.96 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	7.00 kJ/mÂ²	3.33 ft-lb/inÂ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	33.0 kJ/mÂ²	15.7 ft-lb/inÂ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	16.0 J	11.8 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	3.00 J	2.21 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	12.5 Âµm/m-Â°C	6.94 Âµin/in-Â°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	22.4 Âµm/m-Â°C	12.4 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
CTE, linear, Transverse to Flow	49.3 Âµm/m-Â°C	27.4 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	49.3 Âµm/m-Â°C	27.4 Âµin/in-Â°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
Deflection Temperature at 0.46 MPa (66 psi)	145 Â°C	293 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	145 Â°C	293 Â°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	142 Â°C	288 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	142 Â°C	288 Â°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	

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

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