

SABIC Innovative Plastics LNP STAT-KON WE002 PBT (Asia Pacific)

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT)

Material Notes:

LNP STAT-KON* WE002 is a compound based on Polybutylene Terephthalate 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-WE002-PBT-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Density	1.34 g/cc	0.0484 lb/in ³	ISO 1183
	1.35 g/cc	0.0488 lb/in ³	ASTM D792
Moisture Absorption	0.0900 %	0.0900 %	50% RH, 24 hrs; ASTM D570
	0.100 %	0.100 %	23°C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0039 - 0.0056 cm/cm	0.0039 - 0.0056 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.0040 - 0.0060 cm/cm	0.0040 - 0.0060 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0090 - 0.011 cm/cm	0.0090 - 0.011 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0091 - 0.0114 cm/cm	0.0091 - 0.0114 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	125 MPa	18100 psi	ISO 527
	133 MPa	19300 psi	ASTM D638
Elongation at Break	2.0 %	2.0 %	ISO 527
	2.5 %	2.5 %	ASTM D638
Tensile Modulus	10.14 GPa	1471 ksi	50 mm/min; ASTM D638
	10.46 GPa	1517 ksi	1 mm/min; ISO 527
Flexural Strength	181 MPa	26300 psi	ASTM D790
	184 MPa	26700 psi	ISO 178

Flexural Modulus Mechanical Properties	7.39 GPa Metric	1070 ksi English	ASTM D790 Comments
	7.76 GPa	1130 ksi	ISO 178
Izod Impact, Notched	0.370 J/cm	0.693 ft-lb/in	ASTM D256
Izod Impact, Unnotched	4.37 J/cm	8.19 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	4.00 kJ/m ^Å ²	1.90 ft-lb/in ^Å ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	29.0 kJ/m ^Å ²	13.8 ft-lb/in ^Å ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	7.00 J	5.16 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	1.00 J	0.738 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	41.7 Åµm/m-Å°C	23.2 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	41.8 Åµm/m-Å°C	23.2 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	79.1 Åµm/m-Å°C	43.9 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	79.2 Åµm/m-Å°C	44.0 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
Deflection Temperature at 1.8 MPa (264 psi)	201 Å°C	394 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	208 Å°C	406 Å°F	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648

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

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