

SABIC Innovative Plastics LNP STAT-KON TE002 PU

Category : Polymer , Thermoplastic , Polyurethane, TP

Material Notes:

LNP* STAT-KON* TE002 is a compound based on Polyurethane resin containing 10% Carbon Fiber. Added feature of this material is:
Electrically Conductive.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-STAT-KON-TE002-PU.php

Physical Properties	Metric	English	Comments
Density	1.27 g/cc	0.0459 lb/in ³	ASTM D792
	1.27 g/cc	0.0459 lb/in ³	ISO 1183
Moisture Absorption	0.460 %	0.460 %	50% RH, 24 hrs; ASTM D570
	0.600 %	0.600 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0010 - 0.0030 cm/cm	0.0010 - 0.0030 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0020 - 0.0040 cm/cm	0.0020 - 0.0040 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	48.0 MPa	6960 psi	Type I, 5 mm/min; ASTM D638
	49.0 MPa	7110 psi	5 mm/min; ISO 527
Tensile Strength, Yield	50.0 MPa	7250 psi	5 mm/min; ISO 527
	52.0 MPa	7540 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	19.8 %	19.8 %	5 mm/min; ISO 527
	22.8 %	22.8 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	15.7 %	15.7 %	5 mm/min; ISO 527
	19.2 %	19.2 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	1.30 GPa	189 ksi	50 mm/min; ASTM D638
	1.58 GPa	229 ksi	1 mm/min; ISO 527
Flexural Strength	51.0 MPa	7400 psi	ISO 178
Flexural Modulus	1.16 GPa	168 ksi	1.3 mm/min, 50 mm span; ASTM D790

Mechanical Properties	Metric 1.68 GPa	English 241 ksi	Comments 2 mm/min; ISO 178
Izod Impact, Notched	4.78 J/cm	8.95 ft-lb/in	ASTM D256
Izod Impact, Unnotched	16.89 J/cm	31.64 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	37.0 kJ/mÂ²	17.6 ft-lb/inÂ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	128 kJ/mÂ²	60.9 ft-lb/inÂ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	23.0 J @Temperature 23.0 Â°C	17.0 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	1.00 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	0.556 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	16.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	8.89 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	175 Â°C	347 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	141 Â°C @Thickness 3.20 mm	286 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	88.0 Â°C	190 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	82.0 Â°C @Thickness 3.20 mm	180 Â°F @Thickness 0.126 in	unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Surface Resistance	5.0 - 8.0 ohm	5.0 - 8.0 ohm	ASTM D257

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