

SABIC Innovative Plastics LNP STAT-KON OE002 PPS - LINEAR

Category : Polymer , Thermoplastic , Polyphenylene Sulfide (PPS)

Material Notes:

LNP* STAT-KON* OE002 is a compound based on PPS - Linear 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-OE002-PPS-LINEAR.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.38 g/cc	1.38 g/cc	ASTM D792
Density	1.377 g/cc	0.04975 lb/in ³	ASTM D792
Moisture Absorption	0.0100 %	0.0100 %	50% RH, 24 hrs; ASTM D570
	0.0200 %	0.0200 %	23°C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0050 - 0.0080 cm/cm	0.0050 - 0.0080 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0060 - 0.0090 cm/cm	0.0060 - 0.0090 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	95.0 MPa	13800 psi	Type I, 5 mm/min; ASTM D638
	96.0 MPa	13900 psi	5 mm/min; ISO 527
Tensile Strength, Yield	95.0 MPa	13800 psi	Type I, 5 mm/min; ASTM D638
	96.0 MPa	13900 psi	5 mm/min; ISO 527
Elongation at Break	1.7 %	1.7 %	5 mm/min; ISO 527
	1.7 %	1.7 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	1.7 %	1.7 %	5 mm/min; ISO 527
	1.7 %	1.7 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	7.39 GPa	1070 ksi	5 mm/min; ASTM D638
	7.50 GPa	1090 ksi	1 mm/min; ISO 527
Flexural Strength	142 MPa	20600 psi	1.3 mm/min, 50 mm span; ASTM D790
	148 MPa	21500 psi	ISO 178

Mechanical Properties	Metric	English	Comments
Flexural Yield Strength	141 MPa	20300 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	6.44 GPa	934 ksi	1.3 mm/min, 50 mm span; ASTM D790
	6.52 GPa	946 ksi	2 mm/min; ISO 178
Izod Impact, Notched	0.330 J/cm	0.618 ft-lb/in	ASTM D256
Izod Impact, Unnotched	2.91 J/cm	5.45 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	2.00 kJ/m ²	0.952 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	18.0 kJ/m ²	8.57 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	7.00 J @Temperature 23.0 °C	5.16 ft-lb @Temperature 73.4 °F	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	27.0 µm/m-°C @Temperature -30.0 - 30.0 °C	15.0 µin/in-°F @Temperature -22.0 - 86.0 °F	ASTM D696
CTE, linear, Transverse to Flow	52.0 µm/m-°C @Temperature -30.0 - 30.0 °C	28.9 µin/in-°F @Temperature -22.0 - 86.0 °F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	259 °C	498 °F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	263 °C @Thickness 3.20 mm	505 °F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	122 °C	252 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	189 °C @Thickness 3.20 mm	372 °F @Thickness 0.126 in	unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Surface Resistance	3.0 - 6.0 ohm	3.0 - 6.0 ohm	ASTM D257

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