

SABIC Innovative Plastics LNP STAT-KON OE006C1 PPS - Linear

Category : Polymer , Thermoplastic , Polyphenylene Sulfide (PPS)

Material Notes:

LNP* STAT-KON* OE006C1 is a compound based on PPS - Linear resin containing 30% 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-OE006C1-PPS-Linear.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.45 g/cc	1.45 g/cc	ASTM D792
Density	1.44 g/cc	0.0520 lb/in ³	ASTM D792
Moisture Absorption	0.0200 %	0.0200 %	50% RH, 24 hrs; ASTM D570
	0.0200 %	0.0200 %	23Â°C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.00080 - 0.0010 cm/cm @Time 86400 sec	0.00080 - 0.0010 in/in @Time 24.0 hour	ASTM D955
Linear Mold Shrinkage, Transverse	0.0070 - 0.0090 cm/cm @Time 86400 sec	0.0070 - 0.0090 in/in @Time 24.0 hour	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	173 MPa	25100 psi	5 mm/min; ISO 527
	192 MPa	27800 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	1.0 %	1.0 %	5 mm/min; ISO 527
	1.2 %	1.2 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	21.97 GPa	3186 ksi	1 mm/min; ISO 527
	23.54 GPa	3414 ksi	5 mm/min; ASTM D638
Flexural Strength	263 MPa	38100 psi	ISO 178
	269 MPa	39000 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	19.64 GPa	2849 ksi	2 mm/min; ISO 178
	19.9 GPa	2890 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.490 J/cm	0.918 ft-lb/in	ASTM D256

Mechanical Properties ¹	Metric ¹	English ¹	Comments ²
Izod Impact, Notched (ISO)	5.00 kJ/mÂ²	2.38 ft-lb/inÂ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	30.0 kJ/mÂ²	14.3 ft-lb/inÂ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	9.00 J @Temperature 23.0 Â°C	6.64 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Impact Test	2.00 J	1.48 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	8.00 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	4.44 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	35.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	19.4 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	275 Â°C	527 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	277 Â°C @Thickness 3.20 mm	531 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	252 Â°C	486 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	264 Â°C @Thickness 3.20 mm	507 Â°F @Thickness 0.126 in	unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Surface Resistance	100 ohm - 1e+05	100 ohm - 1e+05	ASTM D257

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