

SABIC Innovative Plastics LNP STAT-KON JX89626 PES

Category : Polymer , Thermoplastic , Polyethersulfone (PES)

Material Notes:

LNP* STAT-KON* JX89626 is a compound based on Polyethersulfone containing Proprietary Fillers. 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-JX89626-PES.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.41 g/cc	1.41 g/cc	ASTM D792
Density	1.41 g/cc	0.0509 lb/in ³	ASTM D792
Moisture Absorption	0.490 %	0.490 %	50% RH, 24 hrs; ASTM D570
	0.710 %	0.710 %	23 ⁰ 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	0.0050 - 0.0080 cm/cm	0.0050 - 0.0080 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	161 MPa	23400 psi	5 mm/min; ISO 527
	163 MPa	23600 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	2.1 %	2.1 %	Type I, 5 mm/min; ASTM D638
	2.2 %	2.2 %	5 mm/min; ISO 527
Tensile Modulus	11.16 GPa	1619 ksi	1 mm/min; ISO 527
	11.94 GPa	1732 ksi	50 mm/min; ASTM D638
Flexural Strength	226 MPa	32800 psi	ISO 178
	238 MPa	34500 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	9.67 GPa	1400 ksi	2 mm/min; ISO 178
	10.1 GPa	1460 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.490 J/cm	0.918 ft-lb/in	ASTM D256

Izod Impact, Unnotched Mechanical Properties	5.95 J/cm Metric	11.1 ft-lb/in English	ASTM D4812 Comments
Izod Impact, Notched (ISO)	6.00 kJ/mÂ²	2.86 ft-lb/inÂ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	36.0 kJ/mÂ²	17.1 ft-lb/inÂ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	7.00 J @Temperature 23.0 Â°C	5.16 ft-lb @Temperature 73.4 Â°F	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	47.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	26.1 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	38.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	21.1 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	219 Â°C	426 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	220 Â°C @Thickness 3.20 mm	428 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	214 Â°C	417 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	214 Â°C @Thickness 3.20 mm	417 Â°F @Thickness 0.126 in	unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Surface Resistance	2.0 - 5.0 ohm	2.0 - 5.0 ohm	ASTM D257

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