

SABIC Innovative Plastics LNP STAT-KON FX98501 PE

Category : Polymer , Thermoplastic , Polyethylene (PE)

Material Notes:

LNP* STAT-KON* FX98501 is a compound based on Polyethylene resin 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-FX98501-PE.php

Physical Properties	Metric	English	Comments
Density	1.08 g/cc	0.0390 lb/in ³	ISO 1183
	1.09 g/cc	0.0394 lb/in ³	ASTM D792
Moisture Absorption	0.0100 %	0.0100 %	50% RH, 24 hrs; ASTM D570
	0.0200 %	0.0200 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	>= 0.020 cm/cm	>= 0.020 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.010 - 0.030 cm/cm	0.010 - 0.030 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	29.0 MPa	4210 psi	Type I, 5 mm/min; ASTM D638
	32.0 MPa	4640 psi	5 mm/min; ISO 527
Tensile Strength, Yield	36.0 MPa	5220 psi	5 mm/min; ISO 527
	39.0 MPa	5660 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	7.7 %	7.7 %	5 mm/min; ISO 527
	8.5 %	8.5 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	5.6 %	5.6 %	5 mm/min; ISO 527
	5.8 %	5.8 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	2.73 GPa	396 ksi	1 mm/min; ISO 527
	3.34 GPa	484 ksi	50 mm/min; ASTM D638
Flexural Strength	45.0 MPa	6530 psi	ISO 178
Flexural Modulus	2.23 GPa	323 ksi	1.3 mm/min, 50 mm span; ASTM D790

Mechanical Properties	Metric 2-33 GPa	English 337 ksi	Comments 2 mm/min; ISO 178
Izod Impact, Notched	1.51 J/cm	2.83 ft-lb/in	ASTM D256
Izod Impact, Unnotched	5.41 J/cm	10.1 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	12.0 kJ/m ²	5.71 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	31.0 kJ/m ²	14.8 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	11.0 J @Temperature 23.0 Â°C	8.11 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Impact Test	4.00 J	2.95 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	91.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	50.6 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	129 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	71.7 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	114 Â°C	237 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	118 Â°C @Thickness 3.20 mm	244 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	85.0 Â°C	185 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	88.0 Â°C @Thickness 3.20 mm	190 Â°F @Thickness 0.126 in	unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Surface Resistance	2.0 - 4.0 ohm	2.0 - 4.0 ohm	ASTM D257

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