

SABIC Innovative Plastics LNP STAT-KON FX98500C PE

Category : Polymer , Thermoplastic , Polyethylene (PE)

Material Notes:

LNP* STAT-KON* FX98500C is a compound based on Polyethylene resin containing Proprietary Filler(s). 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-FX98500C-PE.php

Physical Properties	Metric	English	Comments
Density	0.970 g/cc	0.0350 lb/in ³	ISO 1183
	0.976 g/cc	0.0353 lb/in ³	ASTM D792
Moisture Absorption	0.0200 %	0.0200 %	50% RH, 24 hrs; ASTM D570
	0.0200 %	0.0200 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.027 - 0.030 cm/cm	0.027 - 0.030 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.027 - 0.030 cm/cm	0.027 - 0.030 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.019 - 0.022 cm/cm	0.019 - 0.022 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.019 - 0.022 cm/cm	0.019 - 0.022 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	13.0 MPa	1890 psi	ASTM D638
	14.0 MPa	2030 psi	ISO 527
Tensile Strength, Yield	23.0 MPa	3340 psi	ASTM D638
	23.0 MPa	3340 psi	ISO 527
Elongation at Break	43.2 %	43.2 %	ASTM D638
	82.8 %	82.8 %	ISO 527
Elongation at Yield	14 %	14 %	ISO 527
	15.8 %	15.8 %	ASTM D638

Tensile Modulus Mechanical Properties	0.870 GPa Metric	126 ksi English	1 mm/min: ISO 527 Comments
	1.07 GPa	155 ksi	50 mm/min; ASTM D638
Flexural Strength	26.0 MPa	3770 psi	ASTM D790
	27.0 MPa	3920 psi	ISO 178
Flexural Modulus	0.870 GPa	126 ksi	ASTM D790
	0.930 GPa	135 ksi	ISO 178
Izod Impact, Notched	0.480 J/cm	0.899 ft-lb/in	ASTM D256
Izod Impact, Unnotched	NB	NB	ASTM D4812
Izod Impact, Notched (ISO)	5.00 kJ/m ²	2.38 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	NB	NB	80*10*4; ISO 180/1U
Dart Drop, Total Energy	21.0 J	15.5 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	63.0 J	46.5 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	48.0 Â°C	118 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	46.0 Â°C	115 Â°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	

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

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