

SABIC Innovative Plastics LNP STAT-KON FX91304 PE

Category : Polymer , Thermoplastic , Polyethylene (PE)

Material Notes:

LNP* STAT-KON* FX91304 is a compound based on Polyethylene resin containing Proprietary Filler(s). Added feature of this grade is:
Electrically Conductive.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-STAT-KON-FX91304-PE.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.950 g/cc	0.950 g/cc	ASTM D792
Density	0.940 g/cc	0.0340 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	0.0040 - 0.0070 cm/cm	0.0040 - 0.0070 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0020 - 0.0050 cm/cm	0.0020 - 0.0050 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	22.0 MPa	3190 psi	5 mm/min; ISO 527
	24.0 MPa	3480 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	26.0 MPa	3770 psi	5 mm/min; ISO 527
	27.0 MPa	3920 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	3.6 %	3.6 %	Type I, 5 mm/min; ASTM D638
	3.7 %	3.7 %	5 mm/min; ISO 527
Elongation at Yield	2.8 %	2.8 %	5 mm/min; ISO 527
	3.0 %	3.0 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	2.42 GPa	351 ksi	1 mm/min; ISO 527
	3.00 GPa	435 ksi	50 mm/min; ASTM D638
Flexural Strength	36.0 MPa	5220 psi	ISO 178
Flexural Yield Strength	35.0 MPa	5080 psi	1.3 mm/min, 50 mm span; ASTM D790

Mechanical Properties	Metric	English	Comments
Flexural Modulus	1.80 GPa	261 ksi	1 mm/min, 50 mm span; ASTM D790
	2.11 GPa	306 ksi	2 mm/min; ISO 178
Izod Impact, Notched	1.66 J/cm	3.11 ft-lb/in	ASTM D256
Izod Impact, Unnotched	5.05 J/cm	9.46 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	13.0 kJ/m ²	6.19 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	10.0 J @Temperature 23.0 Â°C	7.38 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	29.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	16.1 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	232 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	129 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	95.0 Â°C	203 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	97.0 Â°C @Thickness 3.20 mm	207 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	67.0 Â°C	153 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	72.0 Â°C @Thickness 3.20 mm	162 Â°F @Thickness 0.126 in	unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Surface Resistance	2.0 - 6.0 ohm	2.0 - 6.0 ohm	ASTM D257

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215, Fengxian District, Shanghai City, China