

SABIC Innovative Plastics LNP Stat-kon FX97333 PE

Category : Polymer , Thermoplastic , Polyethylene (PE)

Material Notes:

LNP* Stat-kon* FX97333 is a compound based on Polyethylene resin containing Carbon Powder. Added features of this material include:
Electrically Conductive. This data was supplied by SABIC-IP for the Americas region.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-Stat-kon-FX97333-PE.php

Physical Properties	Metric	English	Comments
Density	0.990 g/cc	0.0358 lb/in ³	ISO 1183
	0.994 g/cc	0.0359 lb/in ³	ASTM D 792
Moisture Absorption at Equilibrium	0.99 %	0.99 %	23 ^o C / 50% RH; ISO 62
	0.020 % @Time 86400 sec	0.020 % @Time 24.0 hour	50% RH; ASTM D 570
Linear Mold Shrinkage, Flow	0.020 - 0.040 cm/cm @Time 86400 sec	0.020 - 0.040 in/in @Time 24.0 hour	ASTM D 955
	0.020 - 0.040 cm/cm @Time 86400 sec	0.020 - 0.040 in/in @Time 24.0 hour	ISO 294
Linear Mold Shrinkage, Transverse	0.020 - 0.040 cm/cm @Time 86400 sec	0.020 - 0.040 in/in @Time 24.0 hour	ASTM D 955
	0.020 - 0.040 cm/cm @Time 86400 sec	0.020 - 0.040 in/in @Time 24.0 hour	ISO 294

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	14.0 MPa	2030 psi	ISO 527
	20.0 MPa	2900 psi	ASTM D 638
Tensile Strength, Yield	18.0 MPa	2610 psi	ISO 527
	20.0 MPa	2900 psi	ASTM D 638
Elongation at Break	71.2 %	71.2 %	ISO 527
	98.2 %	98.2 %	ASTM D 638
Elongation at Yield	17.6 %	17.6 %	ASTM D 638
	19.6 %	19.6 %	ISO 527

Mechanical Properties	Metric	English	Comments
Tensile Modulus	0.810 GPa	117 ksi	1 mm/min; ISO 527
Flexural Strength	19.0 MPa	2760 psi	ASTM D 790
Flexural Modulus	0.630 GPa	91.4 ksi	ASTM D 790
Izod Impact, Notched	0.900 J/cm @Temperature 23.0 Â°C	1.69 ft-lb/in @Temperature 73.4 Â°F	ASTM D 256
Izod Impact, Unnotched	NB @Temperature 23.0 Â°C	NB @Temperature 73.4 Â°F	ASTM D 4812
Izod Impact, Notched (ISO)	11.0 kJ/mÂ² @Temperature 23.0 Â°C	5.23 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	96.0 kJ/mÂ² @Temperature 23.0 Â°C	45.7 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1U
Impact Test	70.0 J	51.6 ft-lb	Multiaxial Impact; ISO 6603
	30.0 J @Temperature 23.0 Â°C	22.1 ft-lb @Temperature 73.4 Â°F	Instrumented Impact Energy @ peak; ASTM D 3763

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	44.0 Â°C	111 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	44.0 Â°C @Thickness 3.20 mm	111 Â°F @Thickness 0.126 in	unannealed; ASTM D 648

Electrical Properties	Metric	English	Comments
Volume Resistivity	100 ohm-cm - 1e+05	100 ohm-cm - 1e+05	ASTM D 257
Surface Resistance	100 ohm - 1e+05	100 ohm - 1e+05	ASTM D 257

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