

SABIC Innovative Plastics LNP STAT-KON FD000 PE

Category : Polymer , Thermoplastic , Polyethylene (PE)

Material Notes:

LNP* STAT-KON* FD000 is an unfilled Polyethylene. 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-FD000-PE.php

Physical Properties	Metric	English	Comments
Density	1.04 g/cc	0.0376 lb/in ³	ISO 1183
	1.05 g/cc	0.0379 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	>= 0.020 cm/cm	>= 0.020 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.010 - 0.020 cm/cm	0.010 - 0.020 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	31.0 MPa	4500 psi	5 mm/min; ISO 527
	32.0 MPa	4640 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	32.0 MPa	4640 psi	5 mm/min; ISO 527
	33.0 MPa	4790 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	6.5 %	6.5 %	5 mm/min; ISO 527
	9.0 %	9.0 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	5.5 %	5.5 %	5 mm/min; ISO 527
	6.1 %	6.1 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	1.40 GPa	203 ksi	1 mm/min; ISO 527
	2.22 GPa	322 ksi	50 mm/min; ASTM D638
Flexural Strength	30.0 MPa	4350 psi	ISO 178
Flexural Modulus	1.30 GPa	189 ksi	1.3 mm/min, 50 mm span; ASTM D790

Izod Impact, Notched Mechanical Properties	0.190 J/cm Metric	0.355 ft-lb/in English	ASTM D256 Comments
Izod Impact, Unnotched	8.90 J/cm	16.7 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	2.00 kJ/mÂ²	0.952 ft-lb/inÂ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	53.0 kJ/mÂ²	25.2 ft-lb/inÂ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	13.0 J @Temperature 23.0 Â°C	9.59 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Impact Test	14.0 J	10.3 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	114 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	63.3 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	111 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	61.7 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	84.0 Â°C	183 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	90.0 Â°C @Thickness 3.20 mm	194 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	51.0 Â°C	124 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	51.0 Â°C @Thickness 3.20 mm	124 Â°F @Thickness 0.126 in	unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Surface Resistance	1.0 - 3.0 ohm	1.0 - 3.0 ohm	ASTM D257

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