

SABIC Innovative Plastics LNP STAT-KON WSF42 PBT (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT)

Material Notes:

LNP*STAT-KON* WSF42 is a compound based on Polybutylene Terephthalate resin containing Glass Fiber, Stainless Steel Fiber. Added features include: Electrically Conductive.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-STAT-KON-WSF42-PBT-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Density	1.55 g/cc	0.0560 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.0040 cm/cm	0.0040 in/in	SABIC Method

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	73.0 MPa	10600 psi	5 mm/min; ISO 527
Elongation at Break	2.3 %	2.3 %	5 mm/min; ISO 527
Tensile Modulus	6.40 GPa	928 ksi	1 mm/min; ISO 527
Flexural Yield Strength	112 MPa	16200 psi	2 mm/min; ISO 178
Flexural Modulus	6.30 GPa	914 ksi	2 mm/min; ISO 178
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)	20.0 kJ/m ²	9.52 ft-lb/in ²	80*10*4; ISO 180/1U

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	43.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	23.9 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ISO 11359-2
	@Temperature 23.0 - 60.0 $\text{Å}^\circ\text{C}$	@Temperature 73.4 - 140 $\text{Å}^\circ\text{F}$	
CTE, linear, Transverse to Flow	118 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	65.6 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ISO 11359-2
	@Temperature 23.0 - 60.0 $\text{Å}^\circ\text{C}$	@Temperature 73.4 - 140 $\text{Å}^\circ\text{F}$	
Deflection Temperature at 1.8 MPa (264 psi)	184 $\text{Å}^\circ\text{C}$	363 $\text{Å}^\circ\text{F}$	Flatw 80*10*4 sp=64mm; ISO 75/Af

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

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