

SABIC Innovative Plastics LNP STAT-KON WEF42I PBT

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

Material Notes:

LNP* STAT-KON* WEF42I is a compound based on PBT resin containing 10% Carbon Fiber, 20% Glass Fiber. Added features of this grade include: High Impact, Electrically Conductive.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-STAT-KON-WEF42I-PBT.php

Physical Properties	Metric	English	Comments
Density	1.44 g/cc	0.0520 lb/in ³	ASTM D792
	1.44 g/cc	0.0520 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.0030 - 0.0050 cm/cm	0.0030 - 0.0050 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.010 - 0.030 cm/cm	0.010 - 0.030 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	94.0 MPa	13600 psi	Type I, 5 mm/min; ASTM D638
	99.0 MPa	14400 psi	5 mm/min; ISO 527
Elongation at Break	1.7 %	1.7 %	Type I, 5 mm/min; ASTM D638
	2.5 %	2.5 %	5 mm/min; ISO 527
Tensile Modulus	15.83 GPa	2296 ksi	1 mm/min; ISO 527
	21.84 GPa	3168 ksi	50 mm/min; ASTM D638
Flexural Strength	125 MPa	18100 psi	1.3 mm/min, 50 mm span; ASTM D790
	169 MPa	24500 psi	ISO 178
Flexural Modulus	9.99 GPa	1450 ksi	1.3 mm/min, 50 mm span; ASTM D790
	10.52 GPa	1526 ksi	2 mm/min; ISO 178
Izod Impact, Notched	1.25 J/cm	2.34 ft-lb/in	ASTM D256
Izod Impact, Unnotched	7.10 J/cm	13.3 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	14.0 kJ/m ²	6.66 ft-lb/in ²	80*10*4; ISO 180/1A

Izod Impact Unnotched (ISO) Mechanical Properties	45.0 kJ/m ² Metric	21.4 ft-lb/in ² English	80*10*4-ISO 180/1U Comments
Dart Drop, Total Energy	16.0 J @Temperature 23.0 Â°C	11.8 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	21.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	11.7 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	134 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	74.4 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	203 Â°C	397 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	219 Â°C @Thickness 3.20 mm	426 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	220 Â°C	428 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	205 Â°C @Thickness 3.20 mm	401 Â°F @Thickness 0.126 in	unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Volume Resistivity	4.0 - 6.0 ohm-cm	4.0 - 6.0 ohm-cm	ASTM D257
Surface Resistance	2.0 - 5.0 ohm	2.0 - 5.0 ohm	ASTM D257

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