

## SABIC Innovative Plastics LNP STAT-KON WS002I PBT

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

### Material Notes:

LNP\* STAT-KON\* WS002I is a compound based on PBT resin containing 10% Stainless Steel. Added features of this material include:  
Electrically Conductive, High Impact.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-LNP-STAT-KON-WS002I-PBT.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-STAT-KON-WS002I-PBT.php)

Physical Properties	Metric	English	Comments
Density	1.30 g/cc	0.0470 lb/in <sup>3</sup>	ASTM D792
	1.31 g/cc	0.0473 lb/in <sup>3</sup>	ISO 1183
Moisture Absorption	0.0900 %	0.0900 %	50% RH, 24 hrs; ASTM D570
	0.130 %	0.130 %	23 <sup>o</sup> 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 - 0.030 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	34.0 MPa	4930 psi	5 mm/min; ISO 527
	35.0 MPa	5080 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	37.0 MPa	5370 psi	5 mm/min; ISO 527
	39.0 MPa	5660 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	15.8 %	15.8 %	Type I, 5 mm/min; ASTM D638
	16.5 %	16.5 %	5 mm/min; ISO 527
Elongation at Yield	4.0 %	4.0 %	Type I, 5 mm/min; ASTM D638
	4.1 %	4.1 %	5 mm/min; ISO 527
Tensile Modulus	2.14 GPa	310 ksi	1 mm/min; ISO 527
	2.27 GPa	329 ksi	50 mm/min; ASTM D638
Flexural Strength	67.0 MPa	9720 psi	ISO 178
Flexural Yield Strength	63.0 MPa	9140 psi	1.3 mm/min, 50 mm span; ASTM D790

Mechanical Properties	Metric	English	Comments
Flexural Modulus	1.92 GPa	276 ksi	2 mm/min; ISO 178
	2.03 GPa	294 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.690 J/cm	1.29 ft-lb/in	ASTM D256
Izod Impact, Unnotched	10.1 J/cm	18.9 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	7.00 kJ/m <sup>2</sup>	3.33 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	69.0 kJ/m <sup>2</sup>	32.8 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1U
Dart Drop, Total Energy	6.00 J @Temperature 23.0 Â°C	4.43 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Impact Test	7.00 J	5.16 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	95.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	52.8 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	105 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	58.3 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	115 Â°C	239 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	173 Â°C @Thickness 3.20 mm	343 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	58.0 Â°C	136 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	59.0 Â°C @Thickness 3.20 mm	138 Â°F @Thickness 0.126 in	unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Surface Resistance	2.0 - 4.0 ohm	2.0 - 4.0 ohm	ASTM D257

## Contact Songhan Plastic Technology Co.,Ltd.

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