

## SABIC Innovative Plastics LNP STAT-KON OEL13I PPS - Linear

Category : Polymer , Thermoplastic , Polyphenylene Sulfide (PPS)

### Material Notes:

LNP\* STAT-KON\* OEL13I is a compound based on PPS-Linear resin containing 15% Carbon Fiber, 5% PTFE. Added features of this grade include: High Impact, Wear Resistant, Electrically Conductive.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-LNP-STAT-KON-OEL13I-PPS-Linear.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-STAT-KON-OEL13I-PPS-Linear.php)

Physical Properties	Metric	English	Comments
Density	1.37 g/cc	0.0495 lb/in <sup>3</sup>	ASTM D792
	1.37 g/cc	0.0495 lb/in <sup>3</sup>	ISO 1183
Linear Mold Shrinkage, Flow	0.0020 - 0.0040 cm/cm	0.0020 - 0.0040 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0070 - 0.0090 cm/cm	0.0070 - 0.0090 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	130 MPa	18900 psi	5 mm/min; ISO 527
	132 MPa	19100 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	1.4 %	1.4 %	5 mm/min; ISO 527
	1.8 %	1.8 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	13.95 GPa	2023 ksi	50 mm/min; ASTM D638
	16.59 GPa	2406 ksi	1 mm/min; ISO 527
Flexural Strength	195 MPa	28300 psi	1.3 mm/min, 50 mm span; ASTM D790
	218 MPa	31600 psi	ISO 178
Flexural Modulus	10.51 GPa	1524 ksi	1.3 mm/min, 50 mm span; ASTM D790
	11.92 GPa	1729 ksi	2 mm/min; ISO 178
Izod Impact, Notched	0.930 J/cm	1.74 ft-lb/in	ASTM D256
Izod Impact, Unnotched	6.01 J/cm	11.3 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	8.00 kJ/m <sup>2</sup>	3.81 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1A

Izod Impact, Unnotched (ISO)	35.0 kJ/m <sup>2</sup>	16.7 ft-lb/in <sup>2</sup>	80*10*4-ISO 180/1U
Mechanical Properties	Metric	English	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	3.00 J	2.21 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	14.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	7.78 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	60.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	33.3 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	260 Â°C	500 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	273 Â°C @Thickness 3.20 mm	523 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	212 Â°C	414 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	213 Â°C @Thickness 3.20 mm	415 Â°F @Thickness 0.126 in	unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.0 - 3.0 ohm-cm	1.0 - 3.0 ohm-cm	ASTM D257
Surface Resistance	1.0 - 3.0 ohm	1.0 - 3.0 ohm	ROA; IEC 60093
	2.0 - 4.0 ohm	2.0 - 4.0 ohm	ASTM D257

## Contact Songhan Plastic Technology Co.,Ltd.

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