

## SABIC Innovative Plastics LNP STAT-KON PFD04 PA 6

Category : Polymer , Thermoplastic , Nylon , Nylon 6

### Material Notes:

LNP\* STAT-KON\* PFD04 is a compound based on Nylon 6 containing 20% Glass Fiber. Added feature of this grade is: Ellectrically Conductive.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-LNP-STAT-KON-PFD04-PA-6.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-STAT-KON-PFD04-PA-6.php)

Physical Properties	Metric	English	Comments
Density	1.32 g/cc	0.0477 lb/in <sup>3</sup>	ISO 1183
Water Absorption	1.0 % @Time 86400 sec	1.0 % @Time 24.0 hour	ISO 62-1
Linear Mold Shrinkage, Flow	0.0040 - 0.0060 cm/cm	0.0040 - 0.0060 in/in	on Tensile Bar; SABIC Method

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	87.0 MPa	12600 psi	5 mm/min; ISO 527
Tensile Strength, Yield	107 MPa	15500 psi	5 mm/min; ISO 527
Elongation at Break	2.6 %	2.6 %	5 mm/min; ISO 527
Tensile Modulus	7.00 GPa	1020 ksi	1 mm/min; ISO 527
Flexural Strength	136 MPa	19700 psi	2 mm/min; ISO 178
Flexural Yield Strength	152 MPa	22000 psi	2 mm/min; ISO 178
Flexural Modulus	5.90 GPa	856 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	11.0 kJ/m <sup>2</sup>	5.23 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	50.0 kJ/m <sup>2</sup>	23.8 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1U

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	35.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$ @Temperature 23.0 - 60.0 $\text{Å}^\circ\text{C}$	19.4 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$ @Temperature 73.4 - 140 $\text{Å}^\circ\text{F}$	ISO 11359-2
CTE, linear, Transverse to Flow	112 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$ @Temperature 23.0 - 60.0 $\text{Å}^\circ\text{C}$	62.2 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$ @Temperature 73.4 - 140 $\text{Å}^\circ\text{F}$	ISO 11359-2
Deflection Temperature at 0.46 MPa (66 psi)	214 $\text{Å}^\circ\text{C}$	417 $\text{Å}^\circ\text{F}$	Flatw 80*10*4 sp=64mm; ISO 75/Bf

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	195 A °C	383 A °F	Flatw 80*10*4 sp=64mm; ISO 75/A1
Flammability, UL94	HB @Thickness 1.00 mm	HB @Thickness 0.0394 in	UL 94 by SABIC-IP
Electrical Properties	Metric	English	Comments
Surface Resistance	4.0 - 6.0 ohm	4.0 - 6.0 ohm	ASTM D257

## Contact Songhan Plastic Technology Co.,Ltd.

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