

SABIC Innovative Plastics LNP STAT-KON PFD04ES PA 6 (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , Nylon , Nylon 6

Material Notes:

LNP* STATKON* PFD04ES is a compound based on PA 6 resin containing Carbon Powder, Glass Fiber. Added features include: Electrically Conductive, Easy Molding, Heat Stabilized.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-STAT-KON-PFD04ES-PA-6-Europe-Africa-Middle-East.php

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

Mechanical Properties	Metric	English	Comments
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 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 ²	5.23 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	50.0 kJ/m ²	23.8 ft-lb/in ²	80*10*4; ISO 180/1U

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	35.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	19.4 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	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	112 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	62.2 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	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 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
Deflection Temperature at 1.8 MPa (264 psi)	195 $\text{Å}^\circ\text{C}$	383 $\text{Å}^\circ\text{F}$	Flatw 80*10*4 sp=64mm; ISO 75/Af

Thermal Properties	Metric	English	Comments
Electrical Properties	Metric	English	Comments
Surface Resistance	10000 - 1.00e+6 ohm	10000 - 1.00e+6 ohm	ASTM D257

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