

SABIC Innovative Plastics LNP STAT-KON PFD06 PA 6

Category : Polymer , Thermoplastic , Nylon , Nylon 6

Material Notes:

LNP* STAT-KON* PFD06 is a compound based on Nylon 6 resin containing 30% Glass Fiber. Added features of this material include:
Electrically Conductive.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-STAT-KON-PFD06-PA-6.php

Physical Properties	Metric	English	Comments
Density	1.43 g/cc	0.0517 lb/in ³	ASTM D792
Moisture Absorption	0.500 %	0.500 %	50% RH, 24 hrs; ASTM D570
	0.910 %	0.910 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0038 cm/cm	0.0038 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.0040 cm/cm	0.0040 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0115 cm/cm	0.0115 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.012 cm/cm	0.012 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	159 MPa	23100 psi	ASTM D638
Elongation at Break	2.3 %	2.3 %	ASTM D638
Tensile Modulus	11.72 GPa	1700 ksi	50 mm/min; ASTM D638
Flexural Strength	241 MPa	35000 psi	ASTM D790
Flexural Modulus	11.03 GPa	1600 ksi	ASTM D790
Izod Impact, Notched	1.06 J/cm	1.99 ft-lb/in	ASTM D256
Izod Impact, Unnotched	9.07 J/cm	17.0 ft-lb/in	ASTM D4812

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa	206 ^o C	403 ^o F	

Thermal Properties	Metric @ Thickness 3.20 mm	English @ Thickness 0.126 in	Comments unannealed; ASTM D648
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Electrical Properties	Metric	English	Comments
Volume Resistivity	1000 ohm-cm	1000 ohm-cm	ASTM D257
Surface Resistance	1.0 - 6.0 ohm	1.0 - 6.0 ohm	ASTM D257

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