

LNP™ STAT-KON™ PFD06 compound

Polyamide 6

SABIC Innovative Plastics

Message:

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

Also known as: LNP* STAT-KON* Compound PF-30

Product reorder name: PFD06

General Information			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Features	Electrically Conductive		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.43	g/cm ³	ASTM D792
Molding Shrinkage			
Flow : 24 hr	0.40	%	ASTM D955
Across Flow : 24 hr	1.2	%	ASTM D955, ISO 294-4
Flow : 24 hr	0.38	%	ISO 294-4
Water Absorption			
24 hr, 50% RH	0.50	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.91	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	11700	MPa	ASTM D638
Tensile Strength (Break)	159	MPa	ASTM D638
Tensile Elongation (Break)	2.3	%	ASTM D638
Flexural Modulus	11000	MPa	ASTM D790
Flexural Strength	241	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	110	J/m	ASTM D256
Unnotched Izod Impact (23°C)	910	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.20 mm)	206	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0 to 6.0	ohms	ASTM D257
Volume Resistivity	1.0E+3	ohms · cm	ASTM D257
Injection	Nominal Value	Unit	
Drying Temperature	82.2	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.15 to 0.25	%	
Rear Temperature	249 to 260	°C	

Middle Temperature	266 to 277	°C
Front Temperature	277 to 288	°C
Processing (Melt) Temp	266 to 277	°C
Mold Temperature	82.2 to 93.3	°C
Back Pressure	0.344 to 0.689	MPa
Screw Speed	30 to 60	rpm

NOTE

1.
- 50 mm/min

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Recommended distributors for this material

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