

LNP™ STAT-KON™ PFD04S compound

Polyamide 6

SABIC Innovative Plastics Europe

Message:

LNP STAT-KON PFD04S is a compound based on PA 6 resin containing Glass Fiber, Carbon Powder. Added features include: Electrically Conductive, Heat Stabilized.

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

Product reorder name: PFD04S

General Information			
UL YellowCard	E45329-101343838		
Filler / Reinforcement	Glass\Carbon Powder		
Additive	Heat Stabilizer		
Features	Electrically Conductive		
	Heat Stabilized		
RoHS Compliance	RoHS Compliant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.32	g/cm³	ISO 1183
Molding Shrinkage - Flow	0.40 to 0.60	%	Internal Method
Water Absorption (23°C, 24 hr)	1.0	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	7000	MPa	ISO 527-2/1
Tensile Stress			ISO 527-2/5
Yield	107	MPa	
Break	87.0	MPa	
Tensile Strain (Break)	2.6	%	ISO 527-2/5
Flexural Modulus ¹	5900	MPa	ISO 178
Flexural Stress ²			ISO 178
-- ³	152	MPa	
-- ⁴	136	MPa	
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength ⁵ (23°C)	11	kJ/m²	ISO 180/1A
Unnotched Izod Impact Strength ⁶ (23°C)	50	kJ/m²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁷			
0.45 MPa, Unannealed, 64.0 mm Span	214	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 64.0 mm Span	195	°C	ISO 75-2/Af
CLTE			ISO 11359-2
Flow : 23 to 60°C	3.5E-5	cm/cm/°C	

Transverse : 23 to 60°C	1.1E-4	cm/cm/°C	
RTI Elec	65.0	°C	UL 746
RTI Imp	65.0	°C	UL 746
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+4 to 1.0E+6	ohms	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.00 mm)	HB		UL 94
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. 2.0 mm/min
2. 2.0 mm/min
3. Yield
4. Break
5. 80*10*4
6. 80*10*4
7. 80*10*4 mm

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