

LNP™ STAT-KON™ PD000 compound

Polyamide 6

SABIC Innovative Plastics Europe

Message:

LNP STAT-KON PD000 is a compound based on PA 6 resin containing Carbon Powder. Added features include: Electrically Conductive.

General Information			
Filler / Reinforcement	Carbon Powder		
Features	Electrically Conductive		
RoHS Compliance	RoHS Compliant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.30	g/cm ³	ISO 1183
Molding Shrinkage - Flow	1.4	%	Internal Method
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	4300	MPa	ISO 527-2/1
Tensile Stress			ISO 527-2/5
Yield	55.0	MPa	
Break	54.0	MPa	
Tensile Strain			ISO 527-2/5
Yield	1.4	%	
Break	1.4	%	
Flexural Modulus ¹	3900	MPa	ISO 178
Flexural Stress ²			ISO 178
-- ³	124	MPa	
-- ⁴	125	MPa	
Flexural Strain at Break ⁵	6.9	%	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength ⁶ (23°C)	3.0	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength ⁷ (23°C)	20	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
CLTE			ISO 11359-2
Flow : 23 to 60°C	7.3E-5	cm/cm/°C	
Transverse : 23 to 60°C	8.0E-5	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+2 to 1.0E+3	ohms	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.	2.0 mm/min
2.	2.0 mm/min
3.	Break
4.	Yield
5.	2 mm/min
6.	80*10*4
7.	80*10*4

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