

LNP™ STAT-KON™ PX05047 compound

Polyamide 6

SABIC Innovative Plastics Europe

Message:

LNP STAT-KON PX05047 is a compound based on PA 6 resin containing Carbon Fiber, Proprietary Filler (s). Added features include: Electrically Conductive, High Impact.

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

Product reorder name: PX05047

General Information			
Filler / Reinforcement	Carbon Fiber		
Features	Electrically Conductive		
	High Heat Resistance		
RoHS Compliance	RoHS Compliant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.17	g/cm ³	ISO 1183
Molding Shrinkage - Flow ¹	0.20 to 0.40	%	Internal Method
Water Absorption (23°C, 24 hr)	1.5	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Break)	114	MPa	ISO 527-2/5
Tensile Strain (Break)	3.6	%	ISO 527-2/5
Flexural Modulus ²	6000	MPa	ISO 178
Flexural Stress	159	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength ³ (23°C)	12	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength ⁴ (23°C)	50	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁵			
0.45 MPa, Unannealed, 64.0 mm Span	214	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 64.0 mm Span	190	°C	ISO 75-2/Af
CLTE			ISO 11359-2
Flow : 23 to 60°C	1.1E-4	cm/cm/°C	
Transverse : 23 to 60°C	1.2E-4	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+3 to 1.0E+5	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.	Tensile Bar
2.	2.0 mm/min
3.	80*10*4
4.	80*10*4
5.	80*10*4 mm

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