LNP™ STAT-KON™ PE002 compound

Polyamide 6

SABIC Innovative Plastics

Message:

LNP STAT-KON PE002 is a compound based on Nylon 6 resin containing 10% Carbon Fiber. Added features of this material include: Electrically Conductive.
Also known as: LNP* STAT-KON* Compound PC-1002
Product reorder name: PE002

General Information			
UL YellowCard	E121562-101343429		
Filler / Reinforcement	Carbon Fiber,10% Filler by Weight		
Features	Electrically Conductive		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
	1.18		
Density	1.18	g/cm³	ISO 1183, ASTM D792
Molding Shrinkage			
	0.30 to 0.50		
Flow : 24 hr	0.30 to 0.50	%	ASTM D955
	0.60 to 0.80		
Across Flow : 24 hr	0.60 to 0.80	%	ASTM D955
	0.74		
Across Flow : 24 hr	0.74	%	ISO 294-4
	0.41		
Flow : 24 hr	0.41	%	ISO 294-4

	1.0		
Water Absorption (24 hr, 50% RH)	1.0	%	ASTM D570
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus			
	11700		
-- [1]	11700	MPa	ASTM D638
	8670		
--	8670	MPa	ISO 527-2/1
Tensile Strength			
	114		
Break	114	MPa	ASTM D638
	124		
Break	124	MPa	ISO 527-2
Tensile Elongation			
	6.8		
Break	6.8	%	ASTM D638
	8.1		
Break	8.1	%	ISO 527-2
Flexural Modulus			
	5520		
--	5520	MPa	ASTM D790

	7400		
--	7400	MPa	ISO 178
Flexural Strength			
	172		
--	172	MPa	ASTM D790
	185		
--	185	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact			
	64		
23°C	64	J/m	ASTM D256
	5.5		
23°C [2]	5.5	kJ/m^2	ISO 180/1A
Unnotched Izod Impact			
	120		
23°C	120	J/m	ASTM D4812
	8.1		
23°C [3]	8.1	kJ/m^2	ISO 180/1U
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			
	219		
0.45 MPa, Unannealed, 3.20 mm	219	°C	ASTM D648

	215		
0.45 MPa, Unannealed, 64.0 mm Span [4]	215	°C	ISO 75-2/Bf
	198		
1.8 MPa, Unannealed, 3.20 mm	198	°C	ASTM D648
	197		
1.8 MPa, Unannealed, 64.0 mm Span [5]	197	°C	ISO 75-2/Af
CLTE			
	8.1E-5		
Flow : -40 to 40°C	8.1E-5	cm/cm/°C	ASTM E831
	8.0E-5		
Flow : -40 to 40°C	8.0E-5	cm/cm/°C	ISO 11359-2
	4.0E-5		
Transverse : -40 to 40°C	4.0E-5	cm/cm/°C	ASTM E831
	3.9E-5		
Transverse : -40 to 40°C	3.9E-5	cm/cm/°C	ISO 11359-2

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
2.	80*10*4
3.	80*10*4
4.	80*10*4 mm
5.	80*10*4 mm

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China