LNP™ STAT-KON™ OE002 compound

Linear Polyphenylene Sulfide

SABIC Innovative Plastics

Message:

LNP STAT-KON OE002 is a compound based on PPS - Linear resin containing 10% Carbon Fiber. Added feature of this material is: Electrically Conductive.
Also known as: LNP* STAT-KON* Compound OC-1002
Product reorder name: OE002

General Information			
Filler / Reinforcement	Carbon Fiber,10% Filler by Weight		
Features	Electrically Conductive Linear Polymer Structure		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.38	g/cm³	ASTM D792
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.50 to 0.80	%	
Across Flow : 24 hr	0.60 to 0.90	%	
Water Absorption			
24 hr, 50% RH	0.010	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.020	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus			
-- [1]	7390	MPa	ASTM D638
--	7510	MPa	ISO 527-2/1
Tensile Strength			
Yield [2]	95.0	MPa	ASTM D638
Yield	96.0	MPa	ISO 527-2/5
Break [3]	95.0	MPa	ASTM D638
Break	96.0	MPa	ISO 527-2/5
Tensile Elongation			
Yield [4]	1.7	%	ASTM D638
Yield	1.7	%	ISO 527-2/5
Break [5]	1.7	%	ASTM D638
Break	1.7	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span [6]	6440	MPa	ASTM D790
-- [7]	6530	MPa	ISO 178
Flexural Stress			
--	148	MPa	ISO 178

Yield, 50.0 mm Span [8]	141	MPa	ASTM D790
Break, 50.0 mm Span [9]	142	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact			
23°C	33	J/m	ASTM D256
23°C [10]	2.9	kJ/m²	ISO 180/1A
Unnotched Izod Impact			
23°C	290	J/m	ASTM D4812
23°C [11]	19	kJ/m²	ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	7.40	J	ASTM D3763
--	1.36	J	ISO 6603-2
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	263	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span [12]	259	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	189	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span [13]	122	°C	ISO 75-2/Af
CLTE			ASTM D696
Flow : -30 to 30°C	2.7E-5	cm/cm/°C	
Transverse : -30 to 30°C	5.2E-5	cm/cm/°C	
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	3.0 to 6.0	ohms	ASTM D257
Injection	**Nominal Value**	**Unit**	
Drying Temperature	121 to 149	°C	
Drying Time	4.0	hr	
Rear Temperature	304 to 316	°C	
Middle Temperature	321 to 332	°C	
Front Temperature	332 to 343	°C	
Processing (Melt) Temp	316 to 321	°C	
Mold Temperature	138 to 166	°C	
Back Pressure	0.172 to 0.344	MPa	
Screw Speed	30 to 60	rpm	
NOTE			
1.	5.0 mm/min		
2.	Type I, 5.0 mm/min		
3.	Type I, 5.0 mm/min		
4.	Type I, 5.0 mm/min		
5.	Type I, 5.0 mm/min		
6.	1.3 mm/min		
7.	2.0 mm/min		
8.	1.3 mm/min		

9.	1.3 mm/min
10.	80*10*4
11.	80*10*4
12.	80*10*4 mm
13.	80*10*4 mm

Recommended distributors for this material

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