

LNP™ STAT-KON™ OE006C1 compound

Linear Polyphenylene Sulfide

SABIC Innovative Plastics

Message:

LNP STAT-KON OE006C1 is a compound based on PPS - Linear resin containing 30% Carbon Fiber. Added features of this material include: Electrically Conductive.

Also known as: LNP* STAT-KON* Compound OC-1006

Product reorder name: OE006C1

General Information			
Filler / Reinforcement	Carbon Fiber,30% Filler by Weight		
Features	Electrically Conductive		
	Linear Polymer Structure		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
	1.44		
Specific Gravity	1.45	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.080 to 0.10	%	
Across Flow : 24 hr	0.70 to 0.90	%	
Water Absorption			
24 hr, 50% RH	0.020	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.020	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	23500	MPa	ASTM D638
--	22000	MPa	ISO 527-2/1
Tensile Strength			
Break ²	192	MPa	ASTM D638
Break	173	MPa	ISO 527-2/5
Tensile Elongation			
Break ³	1.2	%	ASTM D638
Break	1.0	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁴	19900	MPa	ASTM D790
-- ⁵	19600	MPa	ISO 178
Flexural Stress			
--	263	MPa	ISO 178

Break, 50.0 mm Span ⁶	269	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	50	J/m	ASTM D256
23°C ⁷	5.3	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	440	J/m	ASTM D4812
23°C ⁸	31	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	9.30	J	ASTM D3763
--	2.22	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	277	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ⁹	275	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	264	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹⁰	252	°C	ISO 75-2/Af
CLTE			ASTM D696
Flow : -30 to 30°C	8.0E-6	cm/cm/°C	
Transverse : -30 to 30°C	3.5E-5	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+2 to 1.0E+5	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.	1.3 mm/min		
5.	2.0 mm/min		
6.	1.3 mm/min		
7.	80*10*4		
8.	80*10*4		
9.	80*10*4 mm		

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