

LNP™ STAT-KON™ OE004AE compound

Branched Polyphenylene Sulfide

SABIC Innovative Plastics

Message:

LNP STAT-KON* OE004AE is a compound based on PPS - Branched resin containing 20% Carbon Fiber. Added features of this material are: Easy Molding, Electrically Conductive.

Also known as: LNP* STAT-KON* Compound OC-1004 EM

Product reorder name: OE004AE

General Information			
Filler / Reinforcement	Carbon Fiber,20% Filler by Weight		
Features	Branched Polymer Structure		
	Electrically Conductive		
	Good Moldability		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.42	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.10 to 0.30	%	
Across Flow : 24 hr	0.50 to 0.70	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	27200	MPa	ASTM D638
--	19100	MPa	ISO 527-2/1
Tensile Strength			
Yield ²	163	MPa	ASTM D638
Yield	146	MPa	ISO 527-2/5
Break ³	163	MPa	ASTM D638
Break	146	MPa	ISO 527-2/5
Tensile Elongation			
Yield ⁴	0.86	%	ASTM D638
Yield	0.81	%	ISO 527-2/5
Break ⁵	0.86	%	ASTM D638
Break	0.80	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁶	15700	MPa	ASTM D790
-- ⁷	16100	MPa	ISO 178
Flexural Stress			
--	208	MPa	ISO 178
Break, 50.0 mm Span ⁸	215	MPa	ASTM D790

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	47	J/m	ASTM D256
23°C ⁹	4.5	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	250	J/m	ASTM D4812
23°C ¹⁰	13	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	279	°C	ASTM D648
1.8 MPa, Unannealed, 3.20 mm	263	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹¹	262	°C	ISO 75-2/Af
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+2 to 1.0E+6	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.	50 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.	80*10*4		
10.	80*10*4		
11.	80*10*4 mm		

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