

LNP™ STAT-KON™ FX98501 compound

Polyethylene

SABIC Innovative Plastics

Message:

LNP STAT-KON FX98501 is a compound based on Polyethylene resin containing Proprietary Fillers. Added feature of this material is: Electrically Conductive.

Also known as: LNP* STAT-KON* Compound PDX-F-98501

Product reorder name: FX98501

General Information			
Filler / Reinforcement	Proprietary		
Features	Electrically Conductive		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.09	g/cm ³	ASTM D792
--	1.08	g/cm ³	ISO 1183
Molding Shrinkage			ASTM D955
Flow : 24 hr	2.0 to 4.0	%	
Across Flow : 24 hr	1.0 to 3.0	%	
Water Absorption			
24 hr, 50% RH	0.019	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.021	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	3350	MPa	ASTM D638
--	2740	MPa	ISO 527-2/1
Tensile Strength			
Yield ²	39.0	MPa	ASTM D638
Yield	36.0	MPa	ISO 527-2/5
Break ³	29.0	MPa	ASTM D638
Break	32.0	MPa	ISO 527-2/5
Tensile Elongation			
Yield ⁴	5.9	%	ASTM D638
Yield	5.7	%	ISO 527-2/5
Break ⁵	8.5	%	ASTM D638
Break	7.7	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁶	2230	MPa	ASTM D790
-- ⁷	2350	MPa	ISO 178
Flexural Stress	45.8	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	150	J/m	ASTM D256
23°C ⁸	12	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	540	J/m	ASTM D4812
23°C ⁹	32	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	11.7	J	ASTM D3763
--	4.30	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	118	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ¹⁰	114	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	88.0	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹¹	85.0	°C	ISO 75-2/Af
CLTE			ASTM D696
Flow : -30 to 30°C	9.1E-5	cm/cm/°C	
Transverse : -30 to 30°C	1.3E-4	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	2.0 to 4.0	ohms	ASTM D257
Injection	Nominal Value	Unit	
Drying Temperature	82.2	°C	
Drying Time	4.0	hr	
Rear Temperature	193 to 204	°C	
Middle Temperature	210 to 221	°C	
Front Temperature	221 to 232	°C	
Processing (Melt) Temp	232	°C	
Mold Temperature	37.8 to 54.4	°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.	80*10*4		
9.	80*10*4		
10.	80*10*4 mm		

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