

LNP™ STAT-KON™ FX98500C compound

Polyethylene
SABIC Innovative Plastics

Message:

LNP STAT-KON FX98500C is a compound based on Polyethylene resin containing Carbon Powder. Added features of this material include: Electrically Conductive.

Also known as: LNP* STAT-KON* Compound PDX-F-98500

Product reorder name: FX98500C

General Information			
Filler / Reinforcement	Carbon powder		
Features	Conductivity		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.976	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow: 24 hours	2.0 - 4.0	%	ASTM D955
Transverse flow: 24 hours	2.0 - 4.0	%	ASTM D955
Vertical flow direction: 24 hours	2.0 - 4.0	%	ISO 294-4
Flow direction: 24 hours	2.0 - 4.0	%	ISO 294-4
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	1080	MPa	ASTM D638
--	871	MPa	ISO 527-2/1
Tensile Strength			
Yield	23.9	MPa	ASTM D638
Yield	23.0	MPa	ISO 527-2
Fracture	13.9	MPa	ASTM D638
Fracture	14.0	MPa	ISO 527-2
Tensile Elongation			
Yield	16	%	ASTM D638
Yield	14	%	ISO 527-2
Fracture	43	%	ASTM D638
Fracture	83	%	ISO 527-2
Flexural Modulus			
--	870	MPa	ASTM D790
--	931	MPa	ISO 178
Flexural Strength			

--	26.5	MPa	ASTM D790
--	27.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	48	J/m	ASTM D256
23°C ²	5.8	kJ/m ²	ISO 180/1A
Unnotched Izod Impact (23°C)	No Break		ASTM D4812, ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	21.4	J	ASTM D3763
--	63.2	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, unannealed, 3.20mm	46.7	°C	ASTM D648
1.8 MPa, unannealed, 64.0mm span ³	48.0	°C	ISO 75-2/Af
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+2 - 1.0E+5	ohms	ASTM D257
Volume Resistivity	1.0E+2 - 1.0E+5	ohms·cm	ASTM D257
Injection	Nominal Value	Unit	
Drying Temperature	82.2	°C	
Drying Time	4.0	hr	
Rear Temperature	193 - 204	°C	
Middle Temperature	210 - 221	°C	
Front Temperature	221 - 232	°C	
Processing (Melt) Temp	232	°C	
Mold Temperature	37.8 - 54.4	°C	
Back Pressure	0.172 - 0.344	MPa	
Screw Speed	30 - 60	rpm	
NOTE			
1.	50 mm/min		
2.	80*10*4		
3.	80*10*4 mm		

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