

LNP™ STAT-KON™ FX91304 compound

Polyethylene

SABIC Innovative Plastics

Message:

LNP STAT-KON FX91304 is a compound based on Polyethylene resin containing Proprietary Filler(s). Added feature of this grade is: Electrically Conductive.

Also known as: LNP* STAT-KON* Compound PDX-F-91304

Product reorder name: FX91304

General Information			
Filler / Reinforcement	Proprietary		
Features	Electrically Conductive		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			ASTM D792
--	0.940	g/cm ³	
--	0.948	g/cm ³	
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.40 to 0.70	%	
Across Flow : 24 hr	0.20 to 0.50	%	
Water Absorption			
24 hr, 50% RH	0.012	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.020	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	3000	MPa	ASTM D638
--	2430	MPa	ISO 527-2/1
Tensile Strength			
Yield ²	27.2	MPa	ASTM D638
Yield	26.1	MPa	ISO 527-2/5
Break ³	24.6	MPa	ASTM D638
Break	22.1	MPa	ISO 527-2/5
Tensile Elongation			
Yield ⁴	3.0	%	ASTM D638
Yield	2.9	%	ISO 527-2/5
Break ⁵	3.7	%	ASTM D638
Break	3.8	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁶	1800	MPa	ASTM D790
-- ⁷	2120	MPa	ISO 178
Flexural Stress			

--	36.7	MPa	ISO 178
Yield, 50.0 mm Span ⁸	35.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	170	J/m	ASTM D256
23°C ⁹	14	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	510	J/m	ASTM D4812
23°C ¹⁰	31	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	10.0	J	ASTM D3763
--	4.10	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	97.4	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ¹¹	95.0	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	72.3	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹²	67.0	°C	ISO 75-2/Af
CLTE			ASTM D696
Flow : -30 to 30°C	2.9E-5	cm/cm/°C	
Transverse : -30 to 30°C	2.3E-4	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	2.0 to 6.0	ohms	ASTM D257
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	2.0 to 4.0	hr	
Rear Temperature	195 to 205	°C	
Middle Temperature	210 to 220	°C	
Front Temperature	220 to 230	°C	
Processing (Melt) Temp	230	°C	
Mold Temperature	40.0 to 55.0	°C	
Back Pressure	0.200 to 0.300	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
12.	80*10*4 mm

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