

LNP™ STAT-KON™ FD000 compound

Polyethylene

SABIC Innovative Plastics

Message:

LNP STAT-KON FD000 is an unfilled Polyethylene. Added feature of this grade is: Electrically Conductive.

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

Product reorder name: FD000

General Information			
Features	Electrically Conductive		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.05	g/cm ³	ASTM D792
--	1.04	g/cm ³	ISO 1183
Molding Shrinkage			ASTM D955
Flow : 24 hr	2.0 to 3.0	%	
Across Flow : 24 hr	1.0 to 2.0	%	
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	2220	MPa	ASTM D638
--	1400	MPa	ISO 527-2/1
Tensile Strength			
Yield ²	33.0	MPa	ASTM D638
Yield	32.0	MPa	ISO 527-2/5
Break ³	32.0	MPa	ASTM D638
Break	31.0	MPa	ISO 527-2/5
Tensile Elongation			
Yield ⁴	6.1	%	ASTM D638
Yield	5.6	%	ISO 527-2/5
Break ⁵	9.0	%	ASTM D638
Break	6.6	%	ISO 527-2/5
Flexural Modulus ⁶ (50.0 mm Span)	1300	MPa	ASTM D790
Flexural Stress	30.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	19	J/m	ASTM D256
23°C ⁷	2.9	kJ/m ²	ISO 180/1A

Unnotched Izod Impact			
23°C	890	J/m	ASTM D4812
23°C ⁸	53	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	13.4	J	ASTM D3763
--	14.0	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	90.0	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ⁹	84.0	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	51.0	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹⁰	51.0	°C	ISO 75-2/Af
CLTE			ASTM D696
Flow : -30 to 30°C	1.1E-4	cm/cm/°C	
Transverse : -30 to 30°C	1.1E-4	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0 to 3.0	ohms	ASTM D257
Injection	Nominal Value	Unit	
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.	80*10*4		
8.	80*10*4		
9.	80*10*4 mm		
10.	80*10*4 mm		

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