

LNP™ STAT-KON™ MD000XXZ compound

Polypropylene

SABIC Innovative Plastics

Message:

LNP* STAT-KON MD000XXZ is a compound based on Polypropylene containing Carbon. Added feature of this grade is: Electrically Conductive.

Also known as: LNP* STAT-KON* Compound M-2

Product reorder name: MD000XXZ

General Information			
Filler / Reinforcement	Carbon Fiber		
Features	Electrically Conductive		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.02	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow : 24 hr	2.0	%	
Across Flow : 24 hr	1.9	%	
Water Absorption			
24 hr, 50% RH	0.020	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.030	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	2040	MPa	ASTM D638
--	1730	MPa	ISO 527-2/1
Tensile Strength			
Yield ²	32.0	MPa	ASTM D638
Yield	30.0	MPa	ISO 527-2/5
Break ³	24.0	MPa	ASTM D638
Break	26.0	MPa	ISO 527-2/5
Tensile Elongation			
Yield ⁴	5.7	%	ASTM D638
Yield	5.0	%	ISO 527-2/5
Break ⁵	11	%	ASTM D638
Break	2.6	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁶	1740	MPa	ASTM D790
-- ⁷	1620	MPa	ISO 178
Flexural Stress	40.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	460	J/m	ASTM D256

23°C ⁸	24	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	1700	J/m	ASTM D4812
23°C ⁹	140	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	38.9	J	ASTM D3763
--	35.4	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	104	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ¹⁰	91.0	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	57.0	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹¹	56.0	°C	ISO 75-2/Af
CLTE			ASTM D696
Flow : -30 to 30°C	8.4E-5	cm/cm/°C	
Transverse : -30 to 30°C	9.7E-5	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+2 to 1.0E+5	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	216 to 227	°C	
Front Temperature	238 to 249	°C	
Processing (Melt) Temp	227 to 249	°C	
Mold Temperature	32.2 to 48.9	°C	
Back Pressure	0.172 to 0.344	MPa	
Screw Speed	30 to 60	rpm	
NOTE			
1.	5.0 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		
11.	80*10*4 mm		

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