

LNP™ STAT-KON™ MD000AP compound

Polypropylene

SABIC Innovative Plastics

Message:

LNP STAT-KON MD000AP is a compound based on Polypropylene containing Carbon Powder. Added features of this grade include: Electrically Conductive, Exceptional Processing.

Also known as: LNP* STAT-KON* Compound MD000AP

Product reorder name: MD000AP

General Information			
Filler / Reinforcement	Carbon Powder		
Features	Electrically Conductive		
	Good Processability		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.01	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow : 24 hr	1.4	%	
Across Flow : 24 hr	1.6	%	
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	1990	MPa	ASTM D638
--	1780	MPa	ISO 527-2/1
Tensile Strength			
Break ²	24.0	MPa	ASTM D638
Break	22.0	MPa	ISO 527-2/5
Tensile Elongation			
Break ³	2.6	%	ASTM D638
Break	2.3	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁴	1570	MPa	ASTM D790
-- ⁵	1670	MPa	ISO 178
Flexural Stress			
--	39.7	MPa	ISO 178
Break, 50.0 mm Span ⁶	39.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			

23°C	33	J/m	ASTM D256
23°C ⁷	3.1	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	680	J/m	ASTM D4812
23°C ⁸	38	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	15.0	J	ASTM D3763
--	11.1	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	109	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ⁹	88.9	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	60.0	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹⁰	58.0	°C	ISO 75-2/Af
CLTE			ASTM D696
Flow : -30 to 30°C	8.9E-5	cm/cm/°C	
Transverse : -30 to 30°C	9.0E-5	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+2	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.	1.3 mm/min		
5.	2.0 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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