

LNP™ STAT-KON™ MD000 compound

Polypropylene
SABIC Innovative Plastics

Message:

LNP STAT-KON* MD000 is a compound based on Polypropylene resin containing Carbon Powder. Added features of this material include: Electrically Conductive.
Also known as: LNP* STAT-KON* Compound M
Product reorder name: MD000

General Information			
Filler / Reinforcement	Carbon powder		
Features	Conductivity		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.950	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow: 24 hours	1.3 - 1.6	%	ASTM D955
Transverse flow: 24 hours	1.3 - 1.6	%	ASTM D955
Vertical flow direction: 24 hours	1.3	%	ISO 294-4
Flow direction: 24 hours	1.5	%	ISO 294-4
Water Absorption			
24 hr, 50% RH	0.030	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.030	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	1250	MPa	ASTM D638
--	1220	MPa	ISO 527-2/1
Tensile Strength			
Yield	21.9	MPa	ASTM D638
Yield	21.5	MPa	ISO 527-2
Fracture	16.9	MPa	ASTM D638
Fracture	16.0	MPa	ISO 527-2
Tensile Elongation			
Yield	8.4	%	ASTM D638
Yield	6.3	%	ISO 527-2
Fracture	48	%	ASTM D638
Fracture	52	%	ISO 527-2
Flexural Modulus			
--	1180	MPa	ASTM D790
--	1160	MPa	ISO 178
Flexural Strength			

--	29.2	MPa	ASTM D790
--	24.9	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	820	J/m	ASTM D256
23°C ²	60	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	33.4	J	ASTM D3763
--	32.8	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, unannealed, 3.20mm	51.7	°C	ASTM D648
1.8 MPa, unannealed, 64.0mm span ³	53.0	°C	ISO 75-2/Af
Linear thermal expansion coefficient			ASTM E831, ISO 11359-2
Flow: -40 to 40°C	1.0E-4	cm/cm/°C	ASTM E831, ISO 11359-2
Lateral: -40 to 40°C	1.0E-4	cm/cm/°C	ASTM E831, ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+2 - 1.0E+6	ohms	ASTM D257
Injection	Nominal Value	Unit	
Drying Temperature	82.2	°C	
Drying Time	4.0	hr	
Rear Temperature	193 - 204	°C	
Middle Temperature	216 - 227	°C	
Front Temperature	238 - 249	°C	
Processing (Melt) Temp	227 - 249	°C	
Mold Temperature	32.2 - 48.9	°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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