

LNP™ STAT-KON™ MD000IS compound

Polypropylene
SABIC Innovative Plastics

Message:

LNP STAT-KON* MD000IS is a compound based on Polypropylene resin containing Carbon Powder. Added features of this material include: Electrically Conductive, High Impact.
Also known as: LNP* STAT-KON* Compound M-1 HI BK8-114
Product reorder name: MD000IS

General Information			
Filler / Reinforcement	Carbon Powder		
Features	Electrically Conductive		
	High Impact Resistance		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density			
--	0.970	g/cm ³	ISO 1183
--	0.980	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955, ISO 294-4
Flow : 24 hr	1.6 to 1.8	%	
Across Flow : 24 hr	1.6 to 1.8	%	
Water Absorption (24 hr, 50% RH)	0.030	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	483	MPa	ASTM D638
--	1100	MPa	ISO 527-2/1
Tensile Strength			
Yield	21.8	MPa	ASTM D638
Yield	18.5	MPa	ISO 527-2
Break	17.1	MPa	ASTM D638
Break	17.4	MPa	ISO 527-2
Tensile Elongation			
Yield	9.0	%	
Break	130	%	
Flexural Modulus			
--	1140	MPa	ASTM D790
--	1200	MPa	ISO 178
Flexural Strength			
--	27.5	MPa	ASTM D790
--	27.4	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	830	J/m	ASTM D256
23°C ²	66	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	1600	J/m	ASTM D4812
23°C ³	110	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	24.4	J	ASTM D3763
--	31.0	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	81.1	°C	ASTM D648
1.8 MPa, Unannealed, 3.20 mm	52.8	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁴	56.0	°C	ISO 75-2/Af
CLTE			ASTM E831, ISO 11359-2
Flow : -40 to 40°C	1.0E-4	cm/cm/°C	
Transverse : -40 to 40°C	1.2E-4	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	10 to 1.0E+6	ohms	ASTM D257
Static Decay ⁵	10	msec	FTMS 101B
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.	50 mm/min		
2.	80*10*4		
3.	80*10*4		
4.	80*10*4 mm		
5.	5000V to <50V		

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