

LNP™ STAT-KON™ MD000ISC compound

Polypropylene
SABIC Innovative Plastics

Message:

LNP STAT-KON* MD000ISC 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-1 HI

Product reorder name: MD000ISC

General Information			
UL YellowCard	E207780-101343866		
Filler / Reinforcement	Carbon powder		
Features	Conductivity		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.980	g/cm ³	ASTM D792
Molding Shrinkage			
Flow: 24 hours	1.6 - 1.8	%	ASTM D955
Transverse flow: 24 hours	1.6 - 1.8	%	ASTM D955
Vertical flow direction: 24 hours	1.6 - 1.8	%	ISO 294-4
Flow direction: 24 hours	1.6 - 1.8	%	ISO 294-4
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
Fracture	17.1	MPa	ASTM D638
Fracture	17.4	MPa	ISO 527-2
Tensile Elongation			
Yield	9.0	%	ASTM D638
Fracture	130	%	ASTM D638
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
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, unannealed, 3.20mm	81.1	°C	ASTM D648
1.8 MPa, unannealed, 3.20mm	52.8	°C	ASTM D648
1.8 MPa, unannealed, 64.0mm span ⁴	56.0	°C	ISO 75-2/Af
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	10 - 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		
4.	80*10*4 mm		

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