

LNP™ STAT-KON™ MFD03 compound

Polypropylene
SABIC Innovative Plastics

Message:

LNP STAT-KON MFD03 is a compound based on Polypropylene resin containing Glass Fiber, Carbon Powder. Added features of this material include: Electrically Conductive.
Also known as: LNP* STAT-KON* Compound MF-15
Product reorder name: MFD03

General Information			
Filler / Reinforcement	Glass \charcoal powder		
Features	Conductivity		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.07	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow: 24 hours	1.0	%	ASTM D955
Transverse flow: 24 hours	0.90	%	ASTM D955
Vertical flow direction: 24 hours	0.92	%	ISO 294-4
Flow direction: 24 hours	1.0	%	ISO 294-4
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	3450	MPa	ASTM D638
--	3310	MPa	ISO 527-2/1
Tensile Strength			
Yield	34.5	MPa	ASTM D638
Yield	34.0	MPa	ISO 527-2
Fracture	16.5	MPa	ASTM D638
Fracture	15.0	MPa	ISO 527-2
Tensile Elongation			
Yield	2.7	%	ASTM D638
Yield	2.6	%	ISO 527-2
Fracture	6.9	%	ASTM D638
Fracture	5.7	%	ISO 527-2
Flexural Modulus			
--	2760	MPa	ASTM D790
--	3000	MPa	ISO 178
Flexural Stress	51.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	350	J/m	ASTM D256

23°C ²	23	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	140	J/m	ASTM D4812
23°C ³	13	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	13.2	J	ASTM D3763
--	5.70	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, unannealed, 3.20mm	147	°C	ASTM D648
0.45 MPa, unannealed, 64.0mm span ⁴	142	°C	ISO 75-2/Bf
1.8 MPa, unannealed, 3.20mm	106	°C	ASTM D648
1.8 MPa, unannealed, 64.0mm span ⁵	98.0	°C	ISO 75-2/Af
Linear thermal expansion coefficient			
Flow: -40 to 40°C	1.0E-4	cm/cm/°C	ASTM E831
Flow: -40 to 40°C	1.1E-4	cm/cm/°C	ISO 11359-2
Lateral: -40 to 40°C	4.7E-5	cm/cm/°C	ASTM E831, ISO 11359-2
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		
5.	80*10*4 mm		

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