

LNP™ STAT-KON™ MFD03 compound

Polypropylene
SABIC Innovative Plastics

Message:

LNP STAT-KON MFD03 is a compound based on Polypropylene resin containing 15% Glass Fiber. Added features of this material include: Electrically Conductive.

Also known as: LNP* STAT-KON* Compound STATKON-MF-15

Product reorder name: MFD03

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 15% filler by weight		
Features	Conductivity		
RoHS Compliance	RoHS compliance		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.06	g/cm ³	ISO 1183
Molding Shrinkage - Flow	0.50 - 1.0	%	Internal method
Water Absorption (23°C, 24 hr)	0.020	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	4300	MPa	ISO 527-2/1
Tensile Stress			ISO 527-2/5
Yield	60.0	MPa	ISO 527-2/5
Fracture	59.0	MPa	ISO 527-2/5
Tensile Strain			ISO 527-2/5
Yield	2.4	%	ISO 527-2/5
Fracture	2.4	%	ISO 527-2/5
Flexural Modulus ¹	4100	MPa	ISO 178
Flexural Stress ²			ISO 178
-- ³	88.0	MPa	ISO 178
-- ⁴	50.0	MPa	ISO 178
Flexural Strain at Break ⁵	3.7	%	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact ⁶ (23°C)	5.0	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength ⁷ (23°C)	20	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁸			
0.45 MPa, unannealed, 64.0mm span	154	°C	ISO 75-2/Bf
1.8 MPa, unannealed, 64.0mm span	127	°C	ISO 75-2/Af
Linear thermal expansion coefficient			ISO 11359-2
Flow: 23 to 60°C	5.0E-5	cm/cm/°C	ISO 11359-2
Lateral: 23 to 60°C	1.3E-4	cm/cm/°C	ISO 11359-2

Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+3 - 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.	2.0 mm/min		
2.	2.0 mm/min		
3.	Yield		
4.	Break		
5.	2 mm/min		
6.	80*10*4		
7.	80*10*4		
8.	80*10*4 mm		

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