

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 MF-15

Product reorder name: MFD03

General Information			
Filler / Reinforcement	Glass Fiber,15% Filler by Weight		
Features	Electrically Conductive		
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 hr	1.0	%	ASTM D955, ISO 294-4
Across Flow : 24 hr	0.90	%	ASTM D955
Across Flow : 24 hr	0.92	%	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
Break	16.5	MPa	ASTM D638
Break	15.0	MPa	ISO 527-2
Tensile Elongation			
Yield	2.7	%	ASTM D638
Yield	2.6	%	ISO 527-2
Break	6.9	%	ASTM D638
Break	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, 3.20 mm	147	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ⁴	142	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	106	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁵	98.0	°C	ISO 75-2/Af
CLTE			
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
Transverse : -40 to 40°C	4.7E-5	cm/cm/°C	ASTM E831, ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+3 to 1.0E+6	ohms	ASTM D257
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.	80*10*4 mm		

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