

LNP™ FARADEX™ MS003 compound

Polypropylene
SABIC Innovative Plastics

Message:

LNP* FARADEX* MS003 is a compound based on Polypropylene resin containing 15% Stainless Steel. Added features of this material include: Electrically Conductive, EMI/RFI Shielding.

Also known as: LNP* FARADEX* Compound MS-1003

Product reorder name: MS003

General Information			
Filler / Reinforcement	Stainless Steel Fiber,15% Filler by Weight		
Features	Electrically Conductive		
	Electromagnetic Shielding (EMI)		
	Radio Frequency Shielding (RFI)		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.01	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			ASTM D955, ISO 294-4
Flow : 24 hr	1.2	%	
Across Flow : 24 hr	1.3	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	1200	MPa	ASTM D638
--	1300	MPa	ISO 527-2/1
Tensile Strength			
Yield	20.0	MPa	ASTM D638
Yield	21.0	MPa	ISO 527-2
Break	15.2	MPa	ASTM D638
Break	15.0	MPa	ISO 527-2
Tensile Elongation			
Yield	6.2	%	ASTM D638
Yield	5.2	%	ISO 527-2
Break	88	%	ASTM D638
Break	72	%	ISO 527-2
Flexural Modulus			
--	1190	MPa	ASTM D790
--	1500	MPa	ISO 178
Flexural Strength			
--	27.6	MPa	ASTM D790
--	32.0	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	270	J/m	ASTM D256
23°C ²	25	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	1200	J/m	ASTM D4812
23°C ³	80	kJ/m ²	ISO 180/1U
Multi-Axial Instrumented Impact Energy	22.0	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	92.2	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ⁴	95.0	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	53.9	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁵	56.0	°C	ISO 75-2/Af
CLTE			
Flow : -40 to 40°C	1.0E-4	cm/cm/°C	ASTM E831
Flow : -40 to 40°C	1.4E-4	cm/cm/°C	ISO 11359-2
Transverse : -40 to 40°C	9.7E-5	cm/cm/°C	ASTM E831
Transverse : -40 to 40°C	1.7E-4	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+3	ohms	ASTM D257
Volume Resistivity	1.0E+4	ohms·cm	ASTM D257
Shielding Effectiveness (3.00 mm)	50 to 65	dB	Internal Method
Injection	Nominal Value	Unit	
Drying Temperature	82.2	°C	
Drying Time	4.0	hr	
Rear Temperature	204 to 216	°C	
Middle Temperature	232 to 243	°C	
Front Temperature	260 to 271	°C	
Processing (Melt) Temp	232 to 249	°C	
Mold Temperature	32.2 to 54.4	°C	
Back Pressure	0.172 to 0.344	MPa	
Screw Speed	25 to 50	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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