

LNP™ FARADEX™ NS003 compound

Polycarbonate + ABS

SABIC Innovative Plastics

Message:

LNP FARADEX NS003 is a compound based on PC+ABS resin containing 15% Stainless Steel. Added features of this material include: Electrically Conductive, EMI/RFI Shielding.

Also known as: LNP* FARADEX* Compound PCA-S-1003

Product reorder name: NS003

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			
--	1.24	g/cm ³	ASTM D792
--	1.21	g/cm ³	ISO 1183
Molding Shrinkage			ASTM D955, ISO 294-4
Flow : 24 hr	0.30	%	
Across Flow : 24 hr	0.35	%	
Water Absorption (24 hr, 50% RH)	0.10	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	3110	MPa	ASTM D638
--	2700	MPa	ISO 527-2/1
Tensile Strength			
Yield	52.4	MPa	ASTM D638
Yield	50.0	MPa	ISO 527-2
Break	49.6	MPa	ASTM D638
Break	46.0	MPa	ISO 527-2
Tensile Elongation			
Yield	3.3	%	ASTM D638
Yield	3.5	%	ISO 527-2
Break	4.7	%	ASTM D638
Break	6.0	%	ISO 527-2
Flexural Modulus			
--	2990	MPa	ASTM D790
--	2800	MPa	ISO 178

Flexural Strength			
--	89.6	MPa	ASTM D790
--	86.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	75	J/m	ASTM D256
23°C ²	9.5	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	570	J/m	ASTM D4812
23°C ³	32	kJ/m ²	ISO 180/1U
Instrumented Dart Impact (23°C, Energy at Peak Load)	15.0	J	ASTM D3763
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	120	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ⁴	115	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	105	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁵	103	°C	ISO 75-2/Af
CLTE			
Flow : -40 to 40°C	7.7E-5	cm/cm/°C	ASTM E831
Flow : -40 to 40°C	5.9E-5	cm/cm/°C	ISO 11359-2
Transverse : -40 to 40°C	6.3E-5	cm/cm/°C	ASTM E831
Transverse : -40 to 40°C	8.2E-5	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	10 to 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	
Suggested Max Moisture	0.020	%	
Rear Temperature	221 to 232	°C	
Middle Temperature	232 to 243	°C	
Front Temperature	243 to 254	°C	
Processing (Melt) Temp	221 to 260	°C	
Mold Temperature	37.8 to 82.2	°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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Recommended distributors for this material

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