

LNP™ FARADEX™ WX94736 compound

Polybutylene Terephthalate

SABIC Innovative Plastics

Message:

LNP* FARADEX* WX94736 is a compound based on PBT resin containing Stainless Steel. Added features of this material include: EMI/RFI Shielding, Electrically Conductive.
Also known as: LNP* FARADEX* Compound PDX-W-94736
Product reorder name: WX94736

General Information			
Filler / Reinforcement	Stainless Steel Fiber		
Features	Electrically Conductive		
	Electromagnetic Shielding (EMI)		
	Radio Frequency Shielding (RFI)		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.51	g/cm ³	ASTM D792
--	1.50	g/cm ³	ISO 1183
Molding Shrinkage			
Flow : 24 hr	0.80 to 1.0	%	ASTM D955
Across Flow : 24 hr	1.0 to 1.2	%	ASTM D955
Across Flow : 24 hr	1.1	%	ISO 294-4
Flow : 24 hr	0.89	%	ISO 294-4
Water Absorption (24 hr, 50% RH)	0.10	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	3450	MPa	ASTM D638
--	3110	MPa	ISO 527-2/1
Tensile Strength			
Yield	53.8	MPa	ASTM D638
Yield	53.0	MPa	ISO 527-2
Break	53.8	MPa	ASTM D638
Break	53.0	MPa	ISO 527-2
Tensile Elongation			
Yield	2.7	%	ASTM D638
Yield	2.8	%	ISO 527-2
Break	2.8	%	ASTM D638
Break	2.9	%	ISO 527-2
Flexural Modulus			

--	2760	MPa	ASTM D790
--	3100	MPa	ISO 178
Flexural Strength			
--	55.2	MPa	ASTM D790
--	83.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	59	J/m	ASTM D256
23°C ²	6.1	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	610	J/m	ASTM D4812
23°C ³	23	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	6.20	J	ASTM D3763
--	1.90	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	144	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ⁴	147	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	99.4	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁵	123	°C	ISO 75-2/Af
CLTE			
Flow : -40 to 40°C	8.3E-5	cm/cm/°C	ASTM E831, ISO 11359-2
Transverse : -40 to 40°C	6.8E-5	cm/cm/°C	ASTM E831
Transverse : -40 to 40°C	6.9E-5	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	2.0 to 6.0	ohms	ASTM D257
Volume Resistivity	3.0 to 7.0	ohms · cm	ASTM D257
Injection	Nominal Value	Unit	
Drying Temperature	121	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.050	%	
Rear Temperature	221 to 232	°C	
Middle Temperature	243 to 254	°C	
Front Temperature	260 to 271	°C	
Processing (Melt) Temp	238 to 266	°C	
Mold Temperature	82.2 to 98.9	°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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