LNP™ FARADEX™ NX07344 compound

Polycarbonate + ABS

SABIC Innovative Plastics Asia Pacific

Message:

Faradex NX07344 is a compound based on PC+ABS blend resin containing non-brominated and non-chlorinated flame retardant system, Stainless Steel and glass fiber. Added features of this material include: EMI/RFI Shielding and ESD.

General Information			
UL YellowCard	E207780-101282735		
Filler / Reinforcement	Glass Fiber Stainless Steel Fiber		
Additive	Flame Retardant		
Features	Bromine Free Chlorine Free Electromagnetic Shielding (EMI) ESD Protection Flame Retardant Radio Frequency Shielding (RFI)		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.46	g/cm³	ASTM D792, ISO 1183
Molding Shrinkage			Internal Method
Flow	0.38	%	
Across Flow	0.46	%	
Water Absorption			
24 hr, 50% RH	0.080	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.040	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus			
-- [1]	6000	MPa	ASTM D638
--	5800	MPa	ISO 527-2/1
Tensile Strength			
Break [2]	60.0	MPa	ASTM D638
Break	62.0	MPa	ISO 527-2/5
Tensile Elongation			
Break [3]	1.8	%	ASTM D638
Break	1.8	%	ISO 527-2/5
Flexural Modulus [4] (50.0 mm Span)	5300	MPa	ASTM D790

Flexural Stress			
--	105	MPa	ISO 178
Yield, 50.0 mm Span [5]	90.0	MPa	ASTM D790
Break, 50.0 mm Span [6]	90.0	MPa	ASTM D790
Flexural Strain at Break [7]	2.8	%	ISO 178
Shielding Effectiveness			Internal Method
1.50 mm	47 to 53	dB	
3.00 mm	60 to 70	dB	
Static Decay [8]	10	msec	FTMS 101B
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength [9] (23°C)	7.6	kJ/m²	ISO 179/1eA
Notched Izod Impact			
-30°C	44	J/m	ASTM D256
23°C	60	J/m	ASTM D256
-30°C [10]	5.3	kJ/m²	ISO 180/1A
23°C [11]	6.0	kJ/m²	ISO 180/1A
Unnotched Izod Impact			
-30°C	330	J/m	ASTM D4812
23°C	350	J/m	ASTM D4812
-30°C [12]	21	kJ/m²	ISO 180/1U
23°C [13]	21	kJ/m²	ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	11.5	J	ASTM D3763
--	4.30	J	ISO 6603-2
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			
1.8 MPa, Unannealed, 3.20 mm	94.0	°C	ASTM D648
1.8 MPa, Unannealed, 6.40 mm	96.0	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span [14]	96.0	°C	ISO 75-2/Af
Vicat Softening Temperature			
--	101	°C	ASTM D1525 [15]
--	105	°C	ASTM D1525, ISO 306/B120 13 [16]
--	102	°C	ISO 306/A50
CLTE			
Flow : -40 to 40°C	3.1E-5	cm/cm/°C	ASTM E831
Flow : 23 to 60°C	2.9E-5	cm/cm/°C	ISO 11359-2
Transverse : -40 to 40°C	5.8E-5	cm/cm/°C	ASTM E831
Transverse : 23 to 60°C	7.4E-5	cm/cm/°C	ISO 11359-2
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	1.0E+3 to 1.0E+6	ohms	ASTM D257
Volume Resistivity	1.0E+4 to 1.0E+6	ohms·cm	ASTM D257

Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.50 mm)	V-0		UL 94

Injection	Nominal Value	Unit
Drying Temperature	85.0 to 90.0	°C
Drying Time	3.0 to 4.0	hr
Suggested Max Moisture	0.040	%
Rear Temperature	260 to 300	°C
Middle Temperature	260 to 300	°C
Front Temperature	265 to 300	°C
Nozzle Temperature	265 to 300	°C
Processing (Melt) Temp	270 to 300	°C
Mold Temperature	60.0 to 100	°C
Back Pressure	4.00	MPa
Screw Speed	30 to 100	rpm

NOTE	
1.	50 mm/min
2.	Type I, 5.0 mm/min
3.	Type I, 5.0 mm/min
4.	1.3 mm/min
5.	1.3 mm/min
6.	1.3 mm/min
7.	2 mm/min
8.	5000V to <50V
9.	80*10*4 sp=62mm
10.	80*10*4
11.	80*10*4
12.	80*10*4
13.	80*10*4
14.	80*10*4 mm
15.	Rate A (50°C/h), Loading 2 (50 N)
16.	Rate B (120°C/h), Loading 2 (50 N)

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