

LNP™ FARADEx™ Compound NX07344

(PC+ABS)-(MEF(x)+GF)

Saudi Basic Industries Corporation (SABIC)

Product Texts

LNP FARADEx NX07344 compound is based on Polycarbonate/Acrylonitrile Butadiene Styrene (PC/ABS) blend containing stainless steel fiber and glass fiber. Added features of this grade include: EMI/RFI shielding, Electrically Conductive, Non-Brominated and Non-Chlorinated Flame Retardant.

UL Yellow Card Link [F207780-101282735](https://www.ul.com/yellowcard/F207780-101282735)

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	5800	MPa	ISO 527
Stress at break	62	MPa	ISO 527
Strain at break	1.8	%	ISO 527
Charpy notched impact strength, +23°C	7	kJ/m ²	ISO 179/1eA
Izod impact strength, +23°C, 4mm	21	kJ/m ²	ISO 180/1U
Izod impact strength, -30°C, 4mm	21	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	6	kJ/m ²	ISO 180/1A
Izod notched impact strength, -30°C, 4mm	5	kJ/m ²	ISO 180/1A

ASTM Data	Value	Unit	Test Standard
Tensile Modulus	6000	MPa	ASTM D 638
Tensile Strength at Break	60	MPa	ASTM D 638
Elongation at Break	1.8	%	ASTM D 638
Flexural Modulus	5300	MPa	ASTM D 790
Izod Impact notched, 1/8 in	60	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	44	J/m	ASTM D 256
Temperature	-30	°C	-
Izod Impact unnotched, 1/8 in	350	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	96	°C	ISO 75-1/-2
Vicat softening temperature, A	102	°C	ISO 306
Vicat softening temperature, 120°C/h 50N	105	°C	ISO 306
Coeff. of linear therm. expansion, parallel	29	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	74	E-6/K	ISO 11359-1/-2
Burning behav. at 1.5 mm nom. thickn.	V-0	class	IEC 60695-11-10
Thickness tested	1.5	mm	-

ASTM Data	Value	Unit	Test Standard
DTUL @ 264 psi	94	°C	ASTM D 648
Vicat Temperature	105	°C	ASTM D 1525

Electrical properties	Value	Unit	Test Standard
ASTM Data			
Surface Resistivity	1000000	Ohm	ASTM D 257
Volume Resistivity	1000000	Ohm*cm	ASTM D 257

Other properties	Value	Unit	Test Standard
Humidity absorption	0.04	%	Sim. to ISO 62
Density	1460	kg/m ³	ISO 1183
Water Absorption, 24hr	0.08	%	ASTM D 570
Density	1460	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	85 - 90	°C	-
Pre-drying - Time	3 - 4	h	-
Processing humidity	≤0.04	%	-
Melt temperature	270 - 300	°C	-
Mold temperature	60 - 100	°C	-
Zone 1	260 - 300	°C	-
Zone 2	260 - 300	°C	-

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Zone 3	265 - 300	°C	-
Screw speed	30 - 100	rpm	-
Back pressure	≥4	MPa	-

Characteristics**Processing**

Injection Molding

Additives

Flame retarding agent

Special Characteristics

Increased electrical conductivity, Flame retardant

Features

EMI Attenuation/Shielding

Regional Availability

North America, Europe, Asia Pacific