

LNP™ FARADEx™ Compound NS0031

(PC+ABS)-MEF(x)15

Saudi Basic Industries Corporation (SABIC)

Product Texts

LNP FARADEx NS0031 compound is based on Polycarbonate / Acrylonitrile Butadiene Styrene (PC/ABS) blend containing 15% stainless steel fiber. Added features of this grade include: EMI/RFI shielding, Electrically Conductive, Non-Brominated and Non-Chlorinated Flame Retardant.

UL Yellow Card Link [F207780-101282733](https://www.ul.com/yellow-card-link/F207780-101282733)

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	31	cm ³ /10min	ISO 1133
Temperature	265	°C	-
Load	10	kg	-
ASTM Data			
Melt Flow Index, MFI	12.3	g/10min	ASTM D 1238
Temperature	280	°C	-
Load	5	kg	-

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	3000	MPa	ISO 527
Yield stress	59	MPa	ISO 527
Yield strain	3.2	%	ISO 527
Stress at break	55	MPa	ISO 527
Strain at break	4.4	%	ISO 527
Flexural modulus	3090	MPa	ISO 178
Charpy notched impact strength, +23°C	4	kJ/m ²	ISO 179/1eA
Izod impact strength, +23°C, 4mm	39	kJ/m ²	ISO 180/1U
Izod impact strength, -30°C, 4mm	39	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	5	kJ/m ²	ISO 180/1A
Izod notched impact strength, -30°C, 4mm	5	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	3120	MPa	ASTM D 638
Tensile Strength at Yield	61	MPa	ASTM D 638
Tensile Strength at Break	57	MPa	ASTM D 638
Elongation at Yield	3.4	%	ASTM D 638
Elongation at Break	3.7	%	ASTM D 638
Flexural Modulus	2970	MPa	ASTM D 790
Izod Impact notched, 1/8 in	55	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	43	J/m	ASTM D 256
Temperature	-30	°C	-
Izod Impact unnotched, 1/8 in	686	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	98	°C	ISO 75-1/-2
Vicat softening temperature, B	109	°C	ISO 306
Vicat softening temperature, 120°C/h 50N	112	°C	ISO 306
Burning behav. at 1.5 mm nom. thickn.	V-0	class	IEC 60695-11-10
Thickness tested	1.5	mm	-
Burning behav. 5V at thickness h	5VB	class	IEC 60695-11-20
Thickness tested	2.0	mm	-
ASTM Data			
DTUL @ 264 psi	96	°C	ASTM D 648
Vicat Temperature	109	°C	ASTM D 1525

Electrical properties	Value	Unit	Test Standard
ASTM Data			
Surface Resistivity	100000	Ohm	ASTM D 257
Volume Resistivity	1E7	Ohm*cm	ASTM D 257

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Other properties	Value	Unit	Test Standard
Water absorption	0.2	%	Sim. to ISO 62
Humidity absorption	0.1	%	Sim. to ISO 62
Density	1330	kg/m ³	ISO 1183
Density	1330	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 - 90	°C	-
Zone 1	260 - 300	°C	-
Zone 2	260 - 300	°C	-
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