

Product Texts

LNP FARADEx DS0026I compound is based on Polycarbonate (PC) resin containing 10% stainless steel fiber. Added features of this grade include: High Impact, Flame Retardant, Non-Brominated & Non-Chlorinated Flame Retardant, Electrically Conductive, EMI/RFI shielding.

UL Yellow Card Link [E121562-102158629](https://www.ul.com/yellow-card/E121562-102158629)

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	0.78	mm/mm	ASTM D 955
Mold Shrinkage, TD	1	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	2490	MPa	ISO 527
Yield stress	56	MPa	ISO 527
Yield strain	4.2	%	ISO 527
Stress at break	49	MPa	ISO 527
Strain at break	5.4	%	ISO 527
Flexural modulus	2410	MPa	ISO 178
Flexural strength	87	MPa	ISO 178
Izod impact strength, +23°C, 4mm	116	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	12	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	2780	MPa	ASTM D 638
Tensile Strength at Yield	60	MPa	ASTM D 638
Tensile Strength at Break	48	MPa	ASTM D 638
Elongation at Yield	4.5	%	ASTM D 638
Elongation at Break	7.8	%	ASTM D 638
Flexural Modulus	2510	MPa	ASTM D 790
Izod Impact notched, 1/8 in	153	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	N	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	129	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	138	°C	ISO 75-1/-2
Burning behav. at 1.5 mm nom. thickn.	V-1	class	IEC 60695-11-10
Thickness tested	1.6	mm	-
Burning behav. at thickness h	V-0	class	IEC 60695-11-10
Thickness tested	2.0	mm	-
ASTM Data			
DTUL @ 264 psi	130	°C	ASTM D 648

Electrical properties	Value	Unit	Test Standard
ASTM Data			
Surface Resistivity	23	Ohm	ASTM D 257
Volume Resistivity	1410	Ohm*cm	ASTM D 257

Other properties	Value	Unit	Test Standard
Density	1260	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	120	°C	-
Pre-drying - Time	4	h	-
Processing humidity	≤0.02	%	-
Melt temperature	305 - 325	°C	-
Mold temperature	95 - 120	°C	-

LNP™ FARADEx™ Compound DS0026I

PC-MEF(x)10

Saudi Basic Industries Corporation (SABIC)

Zone 1	295 - 305	°C	-
Zone 2	310 - 320	°C	-
Zone 3	320 - 330	°C	-
Screw speed	30 - 60	rpm	-
Back pressure	0.2 - 0.3	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