

**Product Texts**

LNP FARADEx DS0036I compound is based on Polycarbonate (PC) resin containing 15% stainless steel fiber. Added features of this grade include: Electrically Conductive, EMI/RFI shielding, High Impact, Non-Brominated & Non-Chlorinated Flame Retardant.

UL Yellow Card Link [E45329-101343784](https://www.ul.com/yellow-card/E45329-101343784)

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ISO Data</b>			
Molding shrinkage, normal	0.5	%	ISO 294-4, 2577

Mechanical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Tensile Modulus	2800	MPa	ISO 527
Yield stress	57	MPa	ISO 527
Yield strain	3.8	%	ISO 527
Stress at break	55	MPa	ISO 527
Strain at break	6	%	ISO 527
Flexural modulus	2600	MPa	ISO 178
Izod impact strength, +23°C, 4mm	85	kJ/m <sup>2</sup>	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	14	kJ/m <sup>2</sup>	ISO 180/1A

ASTM Data	Value	Unit	Test Standard
Tensile Modulus	2550	MPa	ASTM D 638
Tensile Strength at Yield	59	MPa	ASTM D 638
Tensile Strength at Break	53	MPa	ASTM D 638
Elongation at Yield	4.3	%	ASTM D 638
Elongation at Break	5.1	%	ASTM D 638
Izod Impact notched, 1/8 in	124	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	80	J/m	ASTM D 256
Temperature	-40	°C	-
Izod Impact unnotched, 1/8 in	1790	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Temp. of deflection under load, 1.80 MPa	125	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	136	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	57	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	68	E-6/K	ISO 11359-1/-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	-
Burning behav. 5V at thickness h	5VA	class	IEC 60695-11-20
Thickness tested	3.0	mm	-

Electrical properties	Value	Unit	Test Standard
<b>ASTM Data</b>			
Surface Resistivity	10000	Ohm	ASTM D 257
Volume Resistivity	1000000	Ohm*cm	ASTM D 257

Other properties	Value	Unit	Test Standard
Density	1290	kg/m <sup>3</sup>	ISO 1183

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	-

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

**Characteristics****Processing**

Injection Molding

**Additives**

Flame retarding agent

**Special Characteristics**

Increased electrical conductivity, Flame retardant

**Features**

EMI Attenuation/Shielding

**Regional Availability**

Europe