

**Product Texts**

LNP FARADEx AS003 compound is based on Acrylonitrile Butadiene Styrene (ABS) resin containing 15% stainless steel fiber. Added features of this grade include: Electrically Conductive, EMI/RFI shielding.

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ISO Data</b>			
Molding shrinkage, parallel	0.3	%	ISO 294-4, 2577
Molding shrinkage, normal	0.4	%	ISO 294-4, 2577
<b>ASTM Data</b>			
Mold Shrinkage, MD	0.3	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.4	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Tensile Modulus	2700	MPa	ISO 527
Yield stress	38	MPa	ISO 527
Yield strain	2.2	%	ISO 527
Stress at break	37	MPa	ISO 527
Strain at break	2.8	%	ISO 527
Flexural modulus	2800	MPa	ISO 178
Flexural strength	66	MPa	ISO 178
Izod impact strength, +23°C, 4mm	18	kJ/m <sup>2</sup>	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	7	kJ/m <sup>2</sup>	ISO 180/1A
<b>ASTM Data</b>			
Tensile Modulus	3150	MPa	ASTM D 638
Tensile Strength at Yield	42	MPa	ASTM D 638
Tensile Strength at Break	39	MPa	ASTM D 638
Elongation at Yield	2.6	%	ASTM D 638
Elongation at Break	6.2	%	ASTM D 638
Flexural Modulus	3040	MPa	ASTM D 790
Flexural Strength	75	MPa	ASTM D 790
Izod Impact notched, 1/8 in	53	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	307	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Temp. of deflection under load, 1.80 MPa	78	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	93	°C	ISO 75-1/-2
<b>ASTM Data</b>			
DTUL @ 66 psi	96	°C	ASTM D 648
DTUL @ 264 psi	88	°C	ASTM D 648

Electrical properties	Value	Unit	Test Standard
<b>ASTM Data</b>			
Surface Resistivity	1000	Ohm	ASTM D 257
Volume Resistivity	10000	Ohm*cm	ASTM D 257

Other properties	Value	Unit	Test Standard
Density	1150	kg/m <sup>3</sup>	ISO 1183
Water Absorption, 24hr	0.2	%	ASTM D 570
Density	1160	kg/m <sup>3</sup>	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	80	°C	-
Pre-drying - Time	4	h	-
Processing humidity	≤0.1	%	-
Melt temperature	240 - 255	°C	-
Mold temperature	70 - 95	°C	-

**LNP™ FARADEx™ Compound AS003**

ABS-MEF(x)15

Saudi Basic Industries Corporation (SABIC)

Zone 1	<b>210 - 220</b>	°C	-
Zone 2	<b>230 - 245</b>	°C	-
Zone 3	<b>255 - 265</b>	°C	-
Screw speed	<b>30 - 60</b>	rpm	-
Back pressure	<b>0.2 - 0.3</b>	MPa	-

**Characteristics****Processing**

Injection Molding

**Features**

EMI Attenuation/Shielding

**Special Characteristics**

Increased electrical conductivity

**Regional Availability**

North America, Europe, Asia Pacific