



LNP™ FARADEX™ Compound AS002

Americas: COMMERCIAL

Also known as: LNP™ FARADEX™ Compound AS-1002

Product reorder name: AS002

LNP™ FARADEX™ AS002 is a compound based on ABS ressin containing 10% Stainless Steel. Added features of this material include: Electrically Conductive, EMI/RFI Shielding.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, yield	430	kgf/cm ²	ASTM D 638
Tensile Stress, break	400	kgf/cm ²	ASTM D 638
Tensile Strain, yield	2.2	%	ASTM D 638
Tensile Strain, break	8.6	%	ASTM D 638
Tensile Modulus, 50 mm/min	30500	kgf/cm ²	ASTM D 638
Flexural Stress	770	kgf/cm ²	ASTM D 790
Flexural Modulus	28700	kgf/cm ²	ASTM D 790
Tensile Stress, yield	39	MPa	ISO 527
Tensile Stress, break	37	MPa	ISO 527
Tensile Strain, yield	2.2	%	ISO 527
Tensile Strain, break	3.3	%	ISO 527
Tensile Modulus, 1 mm/min	2500	MPa	ISO 527
Flexural Stress	66	MPa	ISO 178
Flexural Modulus	2500	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	29	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	5	cm-kgf/cm	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	121	cm-kgf	ASTM D 3763
Izod Impact, unnotched 80*10*4 +23°C	20	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	7	kJ/m ²	ISO 180/1A
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	97	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	87	°C	ASTM D 648



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THERMAL			
CTE, -40°C to 40°C, flow	7.92E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	7.56E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, flow	7.8E-05	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	9.6E-05	1/°C	ISO 11359-2
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	91	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	78	°C	ISO 75/Af
PHYSICAL			
Density	1.12	g/cm ³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.2	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs (5)	18	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	27	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs (5)	0.18	%	ISO 294
Mold Shrinkage, xflow, 24 hrs (5)	0.27	%	ISO 294
Density	1.11	g/cm ³	ISO 1183
ELECTRICAL			
Volume Resistivity	1.E+02 - 1.E+06	Ohm-cm	ASTM D 257
Surface Resistivity	1.E+01 - 1.E+05	Ohm	ASTM D 257
Shielding Effectiveness @ 3mm	40 - 55	dB	SABIC Method



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PROCESSING PARAMETERS	TYPICAL VALUE	Unit
Injection Molding		
Drying Temperature	80	°C
Drying Time	4	hrs
Maximum Moisture Content	0.05 - 0.1	%
Melt Temperature	240 - 255	°C
Front - Zone 3 Temperature	255 - 265	°C
Middle - Zone 2 Temperature	230 - 245	°C
Rear - Zone 1 Temperature	210 - 220	°C
Mold Temperature	70 - 95	°C
Back Pressure	0.2 - 0.3	MPa
Screw Speed	30 - 60	rpm