

## LNP\* Faradex\* Compound NS0039

Americas: COMMERCIAL

Also known as: PCA-S-1003 FR  
Product Reorder Name: NS0039

LNP\* Faradex\* NS0039 is a compound based on PC/ABS resin containing Flame Retardant, Stainless Steel. Added features of this material include: Electrically Conductive, EMI/RFI Shielding, Flame Retardant.

### Property

TYPICAL PROPERTIES <sup>(1)</sup>			
	Value	Unit	Standard
<b>MECHANICAL</b>			
Tensile Stress, yield	58	MPa	ISO 527
Tensile Stress, break	47	MPa	ISO 527
Tensile Strain, yield	3.3	%	ISO 527
Tensile Strain, break	10	%	ISO 527
Tensile Modulus, 1 mm/min	3200	MPa	ISO 527
Flexural Stress	102	MPa	ISO 178
Flexural Modulus	3400	MPa	ISO 178
<b>IMPACT</b>			
Izod Impact, unnotched 80*10*4 +23°C	43	kJ/m <sup>2</sup>	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	6	kJ/m <sup>2</sup>	ISO 180/1A
<b>THERMAL</b>			
CTE, -40°C to 40°C, flow	7.7E-05	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	6.4E-05	1/°C	ISO 11359-2
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	89	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	82	°C	ISO 75/Af
<b>PHYSICAL</b>			
Mold Shrinkage, flow, 24 hrs	0.42	%	ISO 294
Mold Shrinkage, xflow, 24 hrs	0.45	%	ISO 294
Density	1.35	g/cm <sup>3</sup>	ISO 1183
<b>ELECTRICAL</b>			
Volume Resistivity	- 1.E+04	Ohm-cm	ASTM D 257
Surface Resistivity	- 1.E+03	Ohm	ASTM D 257
Shielding Effectiveness @ 3mm	50 - 65	dB	SABIC Method
<b>FLAME CHARACTERISTICS</b>			
UL Compliant, 94V-0 Flame Class Rating (3)(4)	3	mm	UL 94 by GE

Source GMD, last updated:04/23/2007

### Processing

THESE PROPERTY VALUES ARE NOT INTENDED FOR SPECIFICATION PURPOSES.

PLEASE CHECK WITH YOUR [\(LOCAL SALES OFFICE\)](#) FOR AVAILABILITY IN YOUR REGION

(1) Typical values only. Variations within normal tolerances are possible for various colors. All values are measured after at least 48 hours storage at 23°C/50% relative humidity. All properties, except the melt volume and melt flow rates, are measured on injection molded samples. All samples tested under ISO test standards are prepared according to ISO 294.

(2) Only typical data for selection purposes. Not to be used for part or tool design.

- (3) This rating is not intended to reflect hazards presented by this or any other material under actual fire conditions.  
(4) Internal measurements according to UL standards.

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