

LNP* Faradex* Compound NX96302

Americas: COMMERCIAL

LNP* Faradex* NX96302 is a compound based on PC/ABS resin containing stainless steel fibers.

Property

TYPICAL PROPERTIES ⁽¹⁾			
	Value	Unit	Standard
MECHANICAL			
Tensile Stress, yld, Type I, 5 mm/min	62	MPa	ASTM D 638
Tensile Stress, brk, Type I, 5 mm/min	54	MPa	ASTM D 638
Tensile Strain, yld, Type I, 5 mm/min	3.7	%	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	6.1	%	ASTM D 638
Tensile Modulus, 50 mm/min	3300	MPa	ASTM D 638
Flexural Stress, yld, 1.3 mm/min, 50 mm span	109	MPa	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	3590	MPa	ASTM D 790
Tensile Stress, yield, 5 mm/min	61	MPa	ISO 527
Tensile Stress, break, 5 mm/min	60	MPa	ISO 527
Tensile Strain, yield, 50 mm/min	3.2	%	ISO 527
Tensile Modulus, 1 mm/min	3450	MPa	ISO 527
Flexural Modulus, 2 mm/min	3390	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	418	J/m	ASTM D 4812
Izod Impact, notched, 23°C	54	J/m	ASTM D 256
Izod Impact, unnotched 80*10*4 +23°C	30	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	6	kJ/m ²	ISO 180/1A
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	103	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	96	°C	ASTM D 648
CTE, -30°C to 30°C, flow	6.1E-05	1/°C	ASTM D 696
CTE, -30°C to 30°C, xflow	6.7E-05	1/°C	ASTM D 696
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	103	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	94	°C	ISO 75/Af
PHYSICAL			
Density	1.32	g/cm ³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.11	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs	0.3 - 0.5	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	0.5 - 0.7	%	ASTM D 955
Moisture Absorption (23°C / 50% RH)	0.17	%	ISO 62
ELECTRICAL			
Surface Resistivity	1.E+00 - 3.E+00	Ohm	ASTM D 257

Source GMD, last updated:05/20/2008

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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