



LNP™ FARADEx™ Compound NX07330
Asia Pacific: COMMERCIAL

FARADEx NX07330 is a compound based on PC+ABS blend resin containing stainless steel and glass fiber. Added features of this material include EMI/RFI Shielding and ESD.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, yld, Type I, 5 mm/min	0	MPa	ASTM D 638
Tensile Stress, brk, Type I, 5 mm/min	47	MPa	ASTM D 638
Tensile Strain, yld, Type I, 5 mm/min	0	%	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	2.9	%	ASTM D 638
Tensile Modulus, 5 mm/min	3900	MPa	ASTM D 638
Flexural Stress, yld, 1.3 mm/min, 50 mm span	79	MPa	ASTM D 790
Flexural Stress, brk, 1.3 mm/min, 50 mm span	77	MPa	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	3600	MPa	ASTM D 790
Tensile Stress, yield	0	MPa	ISO 527
Tensile Stress, break	47	MPa	ISO 527
Tensile Strain, yield, 5 mm/min	0	%	ISO 527
Tensile Strain, break, 5 mm/min	3.1	%	ISO 527
Tensile Modulus, 1 mm/min	3800	MPa	ISO 527
Flexural Stress, yield, 2 mm/min	87	MPa	ISO 178
Flexural Strain, break, 2 mm/min	6.4	%	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	790	J/m	ASTM D 4812
Izod Impact, unnotched, -30°C	604	J/m	ASTM D 4812
Izod Impact, notched, 23°C	117	J/m	ASTM D 256
Izod Impact, notched, -30°C	66	J/m	ASTM D 256
Instrumented Impact Total Energy, 23°C	19	J	ASTM D 3763
Izod Impact, unnotched 80°10*4 +23°C	70	kJ/m ²	ISO 180/1U

(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.

(5) Measurements made from laboratory test coupon. Actual shrinkage may vary outside of range due to differences in processing conditions, equipment, part geometry and tool design. It is recommended that mold shrinkage studies be performed with surrogate or legacy tooling prior to cutting tools for new molded article.

(6) Needs hard coat to consistently pass 60 sec Vertical Burn.

Source GMD, last updated:

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IMPACT			
Izod Impact, unnotched 80*10*4 -30°C	52	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	11	kJ/m ²	ISO 180/1A
Izod Impact, notched 80*10*4 -30°C	7	kJ/m ²	ISO 180/1A
Charpy Impact, notched, 23°C	11	kJ/m ²	ISO 179/2C
THERMAL			
Vicat Softening Temp, Rate A/50	144	°C	ASTM D 1525
Vicat Softening Temp, Rate B/50	143	°C	ASTM D 1525
HDT, 1.82 MPa, 3.2mm, unannealed	122	°C	ASTM D 648
CTE, -40°C to 40°C, flow	3.2E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	7.1E-05	1/°C	ASTM E 831
CTE, 23°C to 60°C, flow	3.1E-05	1/°C	ISO 11359-2
CTE, 23°C to 60°C, xflow	7.4E-05	1/°C	ISO 11359-2
Vicat Softening Temp, Rate B/50	143	°C	ISO 306
Vicat Softening Temp, Rate B/120	144	°C	ISO 306
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	124	°C	ISO 75/Af
PHYSICAL			
Density	1.33	g/cm ³	ASTM D 792
Mold Shrinkage, flow (5)	0.59	%	SABIC Method
Mold Shrinkage, xflow (5)	0.64	%	SABIC Method
Density	1.33	g/cm ³	ISO 1183
Moisture Absorption (23°C / 50% RH)	0.2	%	ISO 62
ELECTRICAL			
Volume Resistivity	1.E+06 - 1.E+09	Ohm-cm	ASTM D 257
Surface Resistivity	1.E+04 - 1.E+06	Ohm	ASTM D 257
Shielding Effectiveness @ 3mm	30 - 38	dB	SABIC Method

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(6) Needs hard coat to consistently pass 60 sec Vertical Burn.

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PROCESSING PARAMETERS	TYPICAL VALUE	Unit
Injection Molding		
Drying Temperature	85 - 90	°C
Drying Time	3 - 4	hrs
Maximum Moisture Content	0.04	%
Melt Temperature	270 - 300	°C
Nozzle Temperature	265 - 300	°C
Front - Zone 3 Temperature	265 - 300	°C
Middle - Zone 2 Temperature	260 - 300	°C
Rear - Zone 1 Temperature	260 - 300	°C
Mold Temperature	60 - 100	°C
Back Pressure	4	MPa
Screw Speed	30 - 100	rpm

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