

## LNP\* Stat-kon\* Compound FX98500

Americas: COMMERCIAL

Also known as: F-1  
Product Reorder Name: FX98500

LNP\* Stat-kon\* FX98500 is a compound based on Polyethylene resin containing Carbon Powder. Added features of this material include: Electrically Conductive.

### Property

TYPICAL PROPERTIES <sup>(1)</sup>			
	Value	Unit	Standard
<b>MECHANICAL</b>			
Tensile Stress, yield	23	MPa	ASTM D 638
Tensile Stress, break	13	MPa	ASTM D 638
Tensile Strain, yield	15.8	%	ASTM D 638
Tensile Strain, break	43.2	%	ASTM D 638
Tensile Modulus, 50 mm/min	1070	MPa	ASTM D 638
Flexural Stress	26	MPa	ASTM D 790
Flexural Modulus	870	MPa	ASTM D 790
Tensile Stress, yield	23	MPa	ISO 527
Tensile Stress, break	14	MPa	ISO 527
Tensile Strain, yield	14	%	ISO 527
Tensile Strain, break	82.8	%	ISO 527
Tensile Modulus, 1 mm/min	870	MPa	ISO 527
Flexural Stress	27	MPa	ISO 178
Flexural Modulus	930	MPa	ISO 178
<b>IMPACT</b>			
	Value	Unit	Standard
Izod Impact, unnotched, 23°C	No break	J/m	ASTM D 4812
Izod Impact, notched, 23°C	48	J/m	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	21	J	ASTM D 3763
Multiaxial Impact	63	J	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	NB	kJ/m <sup>2</sup>	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	5	kJ/m <sup>2</sup>	ISO 180/1A
<b>THERMAL</b>			
	Value	Unit	Standard
HDT, 1.82 MPa, 3.2mm, unannealed	46	°C	ASTM D 648
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	48	°C	ISO 75/Af
<b>PHYSICAL</b>			
	Value	Unit	Standard
Density	0.976	g/cm <sup>3</sup>	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.02	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs	2.7 - 3	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	1.9 - 2.2	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs	2.7 - 3	%	ISO 294
Mold Shrinkage, xflow, 24 hrs	1.9 - 2.2	%	ISO 294
Density	0.97	g/cm <sup>3</sup>	ISO 1183
Moisture Absorption (23°C / 50% RH)	0.02	%	ISO 62
<b>ELECTRICAL</b>			
	Value	Unit	Standard
Volume Resistivity	1.E+02 - 1.E+05	Ohm-cm	ASTM D 257
Surface Resistivity	1.E+02 - 1.E+05	Ohm	ASTM D 257

## Processing

Parameter	Value	Unit
Injection Molding		
Drying Temperature	80	°C
Drying Time	4	hrs
Melt Temperature	230	°C
Front - Zone 3 Temperature	220 - 230	°C
Middle - Zone 2 Temperature	210 - 220	°C
Rear - Zone 1 Temperature	195 - 205	°C
Mold Temperature	40 - 55	°C
Back Pressure	0.2 - 0.3	MPa
Screw Speed	30 - 60	rpm

Source GMD, last updated:10/01/2004

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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