

## LNP\* Stat-loy\* Compound PF306

Americas: COMMERCIAL

Also known as: PF-30  
Product Reorder Name: PF306

LNP\* Stat-loy\* PF306 is a compound based on Nylon 6 resin containing Glass Fiber. Added features of this material include: Antistat.

### Property

TYPICAL PROPERTIES <sup>(1)</sup>			
	Value	Unit	Standard
<b>MECHANICAL</b>			
Tensile Stress, yield	93	MPa	ASTM D 638
Tensile Stress, break	93	MPa	ASTM D 638
Tensile Strain, yield	2.7	%	ASTM D 638
Tensile Strain, break	2.8	%	ASTM D 638
Tensile Modulus, 50 mm/min	7580	MPa	ASTM D 638
Flexural Stress	96	MPa	ASTM D 790
Flexural Modulus	5510	MPa	ASTM D 790
Tensile Stress, yield	83	MPa	ISO 527
Tensile Stress, break	83	MPa	ISO 527
Tensile Strain, yield	2.7	%	ISO 527
Tensile Strain, break	2.8	%	ISO 527
Tensile Modulus, 1 mm/min	1100	MPa	ISO 527
Flexural Stress	106	MPa	ISO 178
Flexural Modulus	6000	MPa	ISO 178
<b>IMPACT</b>			
Izod Impact, unnotched, 23°C	955	J/m	ASTM D 4812
Izod Impact, notched, 23°C	101	J/m	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	17	J	ASTM D 3763
Multiaxial Impact	6	J	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	45	kJ/m <sup>2</sup>	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	7	kJ/m <sup>2</sup>	ISO 180/1A
<b>THERMAL</b>			
HDT, 0.45 MPa, 3.2 mm, unannealed	202	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	185	°C	ASTM D 648
CTE, -40°C to 40°C, flow	1.19E-04	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	3.96E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, flow	1.19E-04	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	4.E-05	1/°C	ISO 11359-2
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	201	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	182	°C	ISO 75/Af
<b>PHYSICAL</b>			
Density	1.39	g/cm <sup>3</sup>	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	5.1	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs	0.2 - 0.4	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	0.7 - 0.9	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs	0.28	%	ISO 294
Mold Shrinkage, xflow, 24 hrs	0.82	%	ISO 294

Density	1.39	g/cm <sup>3</sup>	ISO 1183
ELECTRICAL	Value	Unit	Standard
Surface Resistivity	9.E+00 - 1.1E+01	Ohm	ASTM D 257

Source GMD, last updated:08/02/2007

## 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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