

## LNP\* Stat-loy\* Compound KX96821

Americas: COMMERCIAL

Also known as: PDX-K-96821

Product Reorder Name: KX96821

LNP STAT-LOY\* KX96821 is a compound based on Acetal resin containing Anti-Static. Added features of this material include: Antistat.

### Property

TYPICAL PROPERTIES <sup>(1)</sup>			
	Value	Unit	Standard
<b>MECHANICAL</b>			
Tensile Stress, yield	44	MPa	ASTM D 638
Tensile Stress, break	34	MPa	ASTM D 638
Tensile Strain, yield	14.8	%	ASTM D 638
Tensile Strain, break	54.4	%	ASTM D 638
Tensile Modulus, 50 mm/min	1850	MPa	ASTM D 638
Flexural Stress	54	MPa	ASTM D 790
Flexural Modulus	1600	MPa	ASTM D 790
Tensile Stress, yield	43	MPa	ISO 527
Tensile Stress, break	39	MPa	ISO 527
Tensile Strain, yield	11.9	%	ISO 527
Tensile Strain, break	32.3	%	ISO 527
Tensile Modulus, 1 mm/min	1600	MPa	ISO 527
Flexural Stress	40	MPa	ISO 178
Flexural Modulus	1540	MPa	ISO 178
<b>IMPACT</b>			
Izod Impact, unnotched, 23°C	NB	J/m	ASTM D 4812
Izod Impact, notched, 23°C	133	J/m	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	32	J	ASTM D 3763
Multiaxial Impact	18	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	13	kJ/m <sup>2</sup>	ISO 180/1A
<b>THERMAL</b>			
HDT, 1.82 MPa, 3.2mm, unannealed	82	°C	ASTM D 648
CTE, -40°C to 40°C, flow	1.35E-04	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	1.49E-04	1/°C	ASTM E 831
CTE, -40°C to 40°C, flow	1.35E-04	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	1.49E-04	1/°C	ISO 11359-2
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	73	°C	ISO 75/Af
<b>PHYSICAL</b>			
Density	1.32	g/cm <sup>3</sup>	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	3.06	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs	1.9	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	1.8	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs	1.88	%	ISO 294
Mold Shrinkage, xflow, 24 hrs	1.82	%	ISO 294
Density	1.32	g/cm <sup>3</sup>	ISO 1183
<b>ELECTRICAL</b>			
	Value	Unit	Standard

## Processing

Parameter	Value	Unit
Injection Molding		
Drying Temperature	80	°C
Drying Time	4	hrs
Melt Temperature	195 - 205	°C
Front - Zone 3 Temperature	200 - 210	°C
Middle - Zone 2 Temperature	190 - 200	°C
Rear - Zone 1 Temperature	175 - 190	°C
Mold Temperature	70 - 95	°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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