

LNP™ STAT-LOY™ COMPOUND KX96821

PDX-K-96821
REGION AMERICAS

DESCRIPTION

LNP STAT-LOY* KX96821 is a compound based on Acetal resin containing Proprietary Filler(s). Added feature of this material is: Antistat.

TYPICAL PROPERTY VALUES

Revision 20170816

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
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
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
IMPACT			
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 ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	13	kJ/m ²	ISO 180/1A
THERMAL			
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

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
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
PHYSICAL			
Density	1.32	g/cm ³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	3.06	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs (5)	1.9	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	1.8	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs (5)	1.88	%	ISO 294
Mold Shrinkage, xflow, 24 hrs (5)	1.82	%	ISO 294
Density	1.32	g/cm ³	ISO 1183
ELECTRICAL			
Surface Resistivity	1.E+09 – 1.E+11	Ohm	ASTM D 257
MECHANICAL PROPERTIES			
Flexural modulus	1600	MPa	ISO 178/1A
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	

DISCLAIMER

The information contained herein may include typical properties of our products or their typical performances when used in certain typical applications. Actual properties of our products, in particular when used in conjunction with any third party material(s) or for any non-typical applications, may differ from typical properties.

It is the customer's responsibility to inspect and test our product(s) in order to satisfy itself as to the suitability of the product(s) for its and its customers particular purposes. The customer is responsible for the appropriate, safe and legal use, processing and handling of all product(s) purchased from us.

Nothing herein is intended to be nor shall it constitute a warranty whatsoever, in particular, warranty of merchantability or fitness for a particular purpose.

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