



LNP™ STAT-LOY™ Compound KX96821

Americas: COMMERCIAL

Also known as: LNP™ STAT-LOY™ Compound PDX-K-96821

Product reorder name: KX96821

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

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, yield	450	kgf/cm ²	ASTM D 638
Tensile Stress, break	350	kgf/cm ²	ASTM D 638
Tensile Strain, yield	14.8	%	ASTM D 638
Tensile Strain, break	54.4	%	ASTM D 638
Tensile Modulus, 50 mm/min	18900	kgf/cm ²	ASTM D 638
Flexural Stress	550	kgf/cm ²	ASTM D 790
Flexural Modulus	16300	kgf/cm ²	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	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	13	cm-kgf/cm	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	327	cm-kgf	ASTM D 3763
Multiaxial Impact	187	cm-kgf	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



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TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
THERMAL			
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
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



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PROCESSING PARAMETERS	TYPICAL 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