LNP™ STAT-LOY™ COMPOUND KX96821

PDX-K-96821

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 20191212

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
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
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/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	13	kJ/m²	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
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/cm³	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

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Mold Shrinkage, xflow, 24 hrs	1.82	%	ISO 294
Density	1.32	g/cm³	ISO 1183
ELECTRICAL			
Surface Resistivity	1.E+09 – 1.E+11	Ohm	ASTM D 257
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	

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