

LNP* Stat-loy* Compound K3000

Asia Pacific: COMMERCIAL

Also known as: K
Product Reorder Name: K3000

LNP* Stat-loy* K3000 is a compound based on Acetal Copolymer resin containing Anti-Static. Added features of this material include: Antistat.

Property

TYPICAL PROPERTIES ⁽¹⁾			
	Value	Unit	Standard
MECHANICAL			
Tensile Stress, yield	48	MPa	ASTM D 638
Tensile Stress, break	32	MPa	ASTM D 638
Tensile Strain, yield	12	%	ASTM D 638
Tensile Strain, break	48	%	ASTM D 638
Tensile Modulus, 50 mm/min	1820	MPa	ASTM D 638
Flexural Stress	55	MPa	ASTM D 790
Flexural Modulus	1660	MPa	ASTM D 790
Tensile Stress, yield	48	MPa	ISO 527
Tensile Stress, break	43	MPa	ISO 527
Tensile Strain, yield	12.1	%	ISO 527
Tensile Strain, break	28.6	%	ISO 527
Tensile Modulus, 1 mm/min	1970	MPa	ISO 527
Flexural Stress	63	MPa	ISO 178
Flexural Modulus	1750	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	1682	J/m	ASTM D 4812
Izod Impact, notched, 23°C	117	J/m	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	23	J	ASTM D 3763
Izod Impact, unnotched 80*10*4 +23°C	130	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	10	kJ/m ²	ISO 180/1A
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	150	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	77	°C	ASTM D 648
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	132	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	76	°C	ISO 75/Af
PHYSICAL			
Density	1.35	g/cm ³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	1.8	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs	2 - 2.4	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	1.9 - 2.4	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs	2 - 2.4	%	ISO 294
Mold Shrinkage, xflow, 24 hrs	1.9 - 2.4	%	ISO 294
Density	1.35	g/cm ³	ISO 1183
ELECTRICAL			
Volume Resistivity	1.E+10 - 1.E+11	Ohm-cm	ASTM D 257
Surface Resistivity	1.E+10 - 1.E+11	Ohm	ASTM D 257

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:09/24/2008

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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