

LNP* Stat-loy* Compound K3000

Asia Pacific: COMMERCIAL

Also known as: LNP* Stat-loy* Compound 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.

TYPICAL PROPERTIES ¹	TYPICAL 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

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TYPICAL PROPERTIES ¹	TYPICAL VALUE	UNIT	STANDARD
THERMAL			
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

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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