



LNP™ STAT-LOY™ Compound A3000

Americas: COMMERCIAL

Also known as: LNP™ STAT-LOY™ Compound A

Product reorder name: A3000

LNP STAT-LOY™ A3000 is a compound based on ABS resin. Added feature of this material is: Antistatic.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, yield	390	kgf/cm ²	ASTM D 638
Tensile Stress, break	370	kgf/cm ²	ASTM D 638
Tensile Strain, yield	3.1	%	ASTM D 638
Tensile Strain, break	6	%	ASTM D 638
Tensile Modulus, 50 mm/min	21000	kgf/cm ²	ASTM D 638
Flexural Stress	660	kgf/cm ²	ASTM D 790
Flexural Modulus	21300	kgf/cm ²	ASTM D 790
Tensile Stress, yield	38	MPa	ISO 527
Tensile Stress, break	31	MPa	ISO 527
Tensile Strain, yield	3	%	ISO 527
Tensile Strain, break	24.2	%	ISO 527
Tensile Modulus, 1 mm/min	2010	MPa	ISO 527
Flexural Stress	59	MPa	ISO 178
Flexural Modulus	1980	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	NB	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	28	cm-kgf/cm	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	334	cm-kgf	ASTM D 3763
Multiaxial Impact	274	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	16	kJ/m ²	ISO 180/1A
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	88	°C	ASTM D 648





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THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	76	°C	ASTM D 648
CTE, -40°C to 40°C, flow	9.34E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	1.01E-04	1/°C	ASTM E 831
CTE, -40°C to 40°C, flow	9.34E-05	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	1.01E-04	1/°C	ISO 11359-2
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	91	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	76	°C	ISO 75/Af
PHYSICAL			
Density	1.065	g/cm ³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	1.08	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs (5)	0.4	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	0.5	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs (5)	0.41	%	ISO 294
Mold Shrinkage, xflow, 24 hrs (5)	0.49	%	ISO 294
Density	1.06	g/cm ³	ISO 1183
ELECTRICAL			
Surface Resistivity	1.E+09 - 1.E+11	Ohm	ASTM D 257
FLAME CHARACTERISTICS			
UL Compliant, 94HB Flame Class Rating (3)(4)	1.5	mm	UL 94 by SABIC-IP





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PROCESSING PARAMETERS	TYPICAL VALUE	Unit
Injection Molding		
Drying Temperature	70 - 80	°C
Drying Time	4	hrs
Maximum Moisture Content	0.05 - 0.1	%
Melt Temperature	200 - 210	°C
Front - Zone 3 Temperature	205 - 215	°C
Middle - Zone 2 Temperature	195 - 205	°C
Rear - Zone 1 Temperature	180 - 195	°C
Mold Temperature	10 - 50	°C
Back Pressure	0.2 - 0.3	MPa
Screw Speed	30 - 60	rpm

