



LNP™ STAT-LOY™ Compound A3000T

Americas: COMMERCIAL

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

Product reorder name: A3000T

LNP STAT-LOY A3000T is a compound based on ABS. Added features of this grade include: Antistatic, Clear.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, yld, Type I, 5 mm/min	320	kgf/cm ²	ASTM D 638
Tensile Stress, brk, Type I, 5 mm/min	240	kgf/cm ²	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	39	%	ASTM D 638
Tensile Modulus, 50 mm/min	12400	kgf/cm ²	ASTM D 638
Flexural Stress, brk, 1.3 mm/min, 50 mm span	430	kgf/cm ²	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	15000	kgf/cm ²	ASTM D 790
Tensile Stress, yield, 5 mm/min	32	MPa	ISO 527
Tensile Stress, break, 5 mm/min	24	MPa	ISO 527
Tensile Strain, break	62.9	%	ISO 527
Tensile Strain, break, 5 mm/min	63	%	ISO 527
Tensile Modulus, 1 mm/min	1140	MPa	ISO 527
Flexural Stress	42	MPa	ISO 178
Flexural Modulus, 2 mm/min	1410	MPa	ISO 178
IMPACT			
Izod Impact, notched, 23°C	13	cm-kgf/cm	ASTM D 256
Izod Impact, notched 80*10*4 +23°C	11	kJ/m ²	ISO 180/1A
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	81	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	87	°C	ASTM D 648
CTE, -40°C to 40°C, flow	1.19E-04	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	1.12E-04	1/°C	ASTM E 831
CTE, -40°C to 40°C, flow	1.18E-04	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	1.12E-04	1/°C	ISO 11359-2



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THERMAL			
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	81	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	68	°C	ISO 75/Af
PHYSICAL			
Specific Gravity	1.08	-	ASTM D 792
Density	1.08	g/cm ³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.8	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs (5)	0.5 - 0.7	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	0.7 - 0.9	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs (5)	0.68	%	ISO 294
Mold Shrinkage, xflow, 24 hrs (5)	0.83	%	ISO 294
Density	1.08	g/cm ³	ISO 1183
Moisture Absorption (23°C / 50% RH)	0.8	%	ISO 62
ELECTRICAL			
Volume Resistivity	9.E+00 - 1.1E+01	Ohm-cm	ASTM D 257
Surface Resistivity	1.E+10 - 1.E+12	Ohm	ASTM D 257



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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