



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

(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.

(5) Measurements made from laboratory test coupon. Actual shrinkage may vary outside of range due to differences in processing conditions, equipment, part geometry and tool design. It is recommended that mold shrinkage studies be performed with surrogate or legacy tooling prior to cutting tools for new molded article.

(6) Needs hard coat to consistently pass 60 sec Vertical Burn.

Source GMD, last updated:

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TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
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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(6) Needs hard coat to consistently pass 60 sec Vertical Burn.

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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

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