+135-3858-6433 (GuangDong)
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+852-6957-5415 (HongKong)

LNP™ STAT-LOY™ Compound A3000TXB

Americas: COMMERCIAL

Also known as: LNP™ STAT-LOY™ Compound A3000TXB
Product reorder name: A3000TXB

LNP STAT-LOY A3000TXB is a compound based on ABS resin. Added features of this material include: Antistatic, Transparent. Bioassessed to ISO 10993.

TYPICAL PROPERTIES[1]	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, yld, Type I, 5 mm/min	380	kgf/cm²	ASTM D 638
Tensile Stress, brk, Type I, 5 mm/min	270	kgf/cm²	ASTM D 638
Tensile Strain, yld, Type I, 5 mm/min	4	%	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	31	%	ASTM D 638
Tensile Modulus, 5 mm/min	16900	kgf/cm²	ASTM D 638
Flexural Stress, yld, 1.3 mm/min, 50 mm span	550	kgf/cm²	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	16600	kgf/cm²	ASTM D 790
Tensile Stress, yield, 5 mm/min	37	MPa	ISO 527
Tensile Stress, break, 5 mm/min	26	MPa	ISO 527
Tensile Strain, yield, 5 mm/min	4	%	ISO 527
Tensile Strain, break, 5 mm/min	29	%	ISO 527
Tensile Modulus, 1 mm/min	1550	MPa	ISO 527
Flexural Stress	49	MPa	ISO 178
Flexural Modulus, 2 mm/min	1490	MPa	ISO 178
IMPACT			
Izod Impact, notched, 23°C	13	cm-kgf/cm	ASTM D 256
Multiaxial Impact	336	cm-kgf	ISO 6603
Instrumented Impact Total Energy, 23°C	203	cm-kgf	ASTM D 3763
Izod Impact, notched 80*10*4 +23°C	14	kJ/m²	ISO 180/1A
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	78	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	66	°C	ASTM D 648
CTE, -30°C to 30°C, flow	1.E-05	1/°C	ASTM D 696

(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			
CTE, -30°C to 30°C, xflow	1.09E-04	1/°C	ASTM D 696
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	77	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	66	°C	ISO 75/Af
PHYSICAL			
Specific Gravity	1.09	-	ASTM D 792
Density	1.08	g/cm³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.54	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs (5)	0.4 - 0.6	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	0.6 - 0.8	%	ASTM D 955
Moisture Absorption (23°C / 50% RH)	0.81	%	ISO 62
ELECTRICAL			
Volume Resistivity	1.E+10 - 1.E+12	Ohm-cm	ASTM D 257
Surface Resistivity	1.E+09 - 1.E+11	Ohm	ASTM D 257
Static Decay, 5000V to <50V	<1	< seconds	FTMS101B

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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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