+135-3858-6433 (GuangDong)
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LNP™ STAT-LOY™ Compound A3000T

Asia Pacific: COMMERCIAL

Also known as: LNP™ STAT-LOY™ Compound A
Product reorder name: A3000T

LNP STAT-KON A3000T is a compound based on Acrylonitrile Butadiene Styrene resin containing Anti-Static. Added features of this material include: Antistat.

TYPICAL PROPERTIES[1]	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, yield	320	kgf/cm²	ASTM D 638
Tensile Stress, break	230	kgf/cm²	ASTM D 638
Tensile Strain, break	39.1	%	ASTM D 638
Tensile Modulus, 50 mm/min	14000	kgf/cm²	ASTM D 638
Flexural Stress	420	kgf/cm²	ASTM D 790
Flexural Modulus	14000	kgf/cm²	ASTM D 790
Tensile Stress, yield	32	MPa	ISO 527
Tensile Stress, break	24	MPa	ISO 527
Tensile Strain, break	62.9	%	ISO 527
Tensile Modulus, 1 mm/min	1140	MPa	ISO 527
Flexural Stress	42	MPa	ISO 178
Flexural Modulus	1400	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/m²	ISO 180/1A
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	80	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	86	°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
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	81	°C	ISO 75/Bf

(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.

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TYPICAL PROPERTIES[1]	TYPICAL VALUE	Unit	Standard
THERMAL			
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	67	°C	ISO 75/Af
PHYSICAL			
Density	1.08	g/cm³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.8	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs (5)	0.5 - 0.8	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	0.6 - 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/cm³	ISO 1183
ELECTRICAL			
Surface Resistivity	1.E+09 - 1.E+11	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 - 25	°C
Back Pressure	0.2 - 0.3	MPa
Screw Speed	30 - 60	rpm

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