

Product Texts

LNP STAT-LOY A3000TXB compound is based on Acrylonitrile Butadiene Styrene (ABS) resin containing proprietary fillers. Added features of this grade include: Permanently Anti-Static, Transparent, Bio-assessed to ISO 10993.

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	0.5	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.7	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	1550	MPa	ISO 527
Yield stress	37	MPa	ISO 527
Yield strain	4	%	ISO 527
Stress at break	26	MPa	ISO 527
Strain at break	29	%	ISO 527
Flexural modulus	1490	MPa	ISO 178
Flexural strength	49	MPa	ISO 178
Izod notched impact strength, +23°C, 4mm	14	kJ/m ²	ISO 180/1A

ASTM Data			
Tensile Modulus	1660	MPa	ASTM D 638
Tensile Strength at Yield	38	MPa	ASTM D 638
Tensile Strength at Break	27	MPa	ASTM D 638
Elongation at Yield	4	%	ASTM D 638
Elongation at Break	31	%	ASTM D 638
Flexural Modulus	1630	MPa	ASTM D 790
Izod Impact notched, 1/8 in	131	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	66	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	77	°C	ISO 75-1/-2
ASTM Data			
Coefficient of Thermal Expansion, MD	10	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	109	E-6/K	ASTM D 696
DTUL @ 66 psi	78	°C	ASTM D 648
DTUL @ 264 psi	66	°C	ASTM D 648

Electrical properties	Value	Unit	Test Standard
ASTM Data			
Surface Resistivity	1E11	Ohm	ASTM D 257
Volume Resistivity	1E12	Ohm*cm	ASTM D 257

Other properties	Value	Unit	Test Standard
Humidity absorption	0.81	%	Sim. to ISO 62
Water Absorption, 24hr	0.54	%	ASTM D 570
Density	1090	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	70 - 80	°C	-
Pre-drying - Time	4	h	-
Processing humidity	≤0.1	%	-
Melt temperature	200 - 210	°C	-
Mold temperature	10 - 50	°C	-
Zone 1	180 - 195	°C	-
Zone 2	195 - 205	°C	-
Zone 3	205 - 215	°C	-
Screw speed	30 - 60	rpm	-

Back pressure

0.2 - 0.3

MPa

-

Characteristics**Processing**

Injection Molding

Applications

Medical

Special Characteristics

Transparent, Ethylene Oxide (EtO) Sterilization, Gamma irradiation sterilization

Regional Availability

North America, Europe, Asia Pacific

Certifications

US Pharmacopeia Class VI Approved