

Product Texts

LNP STAT-LOY AX11421 compound is based on Acrylonitrile Butadiene Styrene (ABS) resin containing proprietary fillers. Added features of this grade include: Permanently Anti-Static.

UL Yellow Card Link [E121562-101132078](https://www.ulprospector.com/121562-101132078)

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	0.6	%	ISO 294-4, 2577
Molding shrinkage, normal	0.8	%	ISO 294-4, 2577
ASTM Data			
Mold Shrinkage, MD	0.6	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.8	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	1310	MPa	ISO 527
Yield stress	30	MPa	ISO 527
Yield strain	4.4	%	ISO 527
Stress at break	21	MPa	ISO 527
Strain at break	50	%	ISO 527
Flexural modulus	1330	MPa	ISO 178
Flexural strength	44	MPa	ISO 178
Izod impact strength, +23°C, 4mm	N	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	39	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	1410	MPa	ASTM D 638
Tensile Strength at Yield	30	MPa	ASTM D 638
Tensile Strength at Break	21	MPa	ASTM D 638
Elongation at Yield	4.7	%	ASTM D 638
Elongation at Break	48	%	ASTM D 638
Flexural Modulus	1350	MPa	ASTM D 790
Izod Impact notched, 1/8 in	425	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	N	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	67	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	85	°C	ISO 75-1/-2
Burning behav. at 1.5 mm nom. thickn. Thickness tested	HB 1.5	class mm	IEC 60695-11-10 -
ASTM Data			
Coefficient of Thermal Expansion, MD	113	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	126	E-6/K	ASTM D 696
DTUL @ 66 psi	86	°C	ASTM D 648
DTUL @ 264 psi	69	°C	ASTM D 648

Electrical properties	Value	Unit	Test Standard
ASTM Data			
Surface Resistivity	1E9	Ohm	ASTM D 257

Other properties	Value	Unit	Test Standard
Humidity absorption	3.7	%	Sim. to ISO 62
Water Absorption, 24hr	2	%	ASTM D 570
Density	1050	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

Regional Availability

North America, Europe, Asia Pacific