

LNP™ STAT-LOY™ Compound NX13401

(PC+ABS)

Saudi Basic Industries Corporation (SABIC)

Product Texts

LNP STAT-LOY NX13401 compound is based on Polycarbonate/Acrylonitrile Butadiene Styrene (PC/ABS) blend containing proprietary fillers. Added features of this grade include: Permanently Anti-Static, Flame Retardant, Excellent Mold Release.

UL Yellow Card Link [E121562-101491406](https://www.ulprospector.com/121562-101491406)

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	0.4	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.5	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	1840	MPa	ISO 527
Yield stress	44	MPa	ISO 527
Yield strain	4	%	ISO 527
Stress at break	37	MPa	ISO 527
Strain at break	23	%	ISO 527
Flexural modulus	1750	MPa	ISO 178
Flexural strength	63	MPa	ISO 178
Izod impact strength, +23°C, 4mm	26	kJ/m ²	ISO 180/1U

ASTM Data			
Tensile Modulus	2050	MPa	ASTM D 638
Tensile Strength at Yield	45	MPa	ASTM D 638
Tensile Strength at Break	38	MPa	ASTM D 638
Elongation at Yield	4.2	%	ASTM D 638
Elongation at Break	55.7	%	ASTM D 638
Flexural Modulus	1880	MPa	ASTM D 790
Izod Impact notched, 1/8 in	824	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	75	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	85	°C	ISO 75-1/-2
Burning behav. at thickness h	V-0	class	IEC 60695-11-10
Thickness tested	0.8	mm	-
ASTM Data			
Coefficient of Thermal Expansion, MD	85	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	93.1	E-6/K	ASTM D 696
DTUL @ 66 psi	95	°C	ASTM D 648
DTUL @ 264 psi	80	°C	ASTM D 648

Electrical properties	Value	Unit	Test Standard
ASTM Data			
Surface Resistivity	1E11	Ohm	ASTM D 257

Other properties	Value	Unit	Test Standard
Humidity absorption	0.9	%	Sim. to ISO 62
Water Absorption, 24hr	0.6	%	ASTM D 570
Density	1230	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	80	°C	-
Pre-drying - Time	4	h	-
Processing humidity	≤0.02	%	-
Melt temperature	200 - 230	°C	-
Mold temperature	40 - 55	°C	-
Zone 1	200 - 210	°C	-

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Zone 2	210 - 220	°C	-
Zone 3	220 - 230	°C	-
Screw speed	30 - 60	rpm	-
Back pressure	0.2 - 0.3	MPa	-

Characteristics**Processing**

Injection Molding

Additives

Flame retarding agent

Special Characteristics

Flame retardant

Regional Availability

North America, Europe, Asia Pacific