

## SABIC Innovative Plastics LNP STAT-LOY NX13401 PC+ABS

Category : Polymer , Thermoplastic , ABS Polymer , Polycarbonate/ABS Alloy, Unreinforced , Polycarbonate (PC)

### Material Notes:

LNP\* STAT-LOY\* NX13401 is a compound based on PC+ABS blend. Added features of this material include: Antistat, Flame Retardant, Excellent Release.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-LNP-STAT-LOY-NX13401-PCABS.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-STAT-LOY-NX13401-PCABS.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.23 g/cc	1.23 g/cc	ASTM D792
Density	1.23 g/cc	0.0444 lb/in <sup>3</sup>	ASTM D792
Moisture Absorption	0.600 %	0.600 %	50% RH, 24 hrs; ASTM D570
	0.900 %	0.900 %	23 <sup>o</sup> C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0030 - 0.0050 cm/cm	0.0030 - 0.0050 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0040 - 0.0060 cm/cm	0.0040 - 0.0060 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	37.0 MPa	5370 psi	5 mm/min; ISO 527
	38.0 MPa	5510 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	44.0 MPa	6380 psi	5 mm/min; ISO 527
	45.0 MPa	6530 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	23 %	23 %	5 mm/min; ISO 527
	55.7 %	55.7 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	4.0 %	4.0 %	5 mm/min; ISO 527
	4.2 %	4.2 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	1.84 GPa	267 ksi	1 mm/min; ISO 527
	2.05 GPa	297 ksi	5 mm/min; ASTM D638
Flexural Strength	63.0 MPa	9140 psi	ISO 178
Flexural Yield Strength	67.0 MPa	9720 psi	1.3 mm/min, 50 mm span; ASTM D790

Mechanical Properties	Metric	English	Comments
Flexural Modulus	1.73 GPa	250 ksi	2 mm/min; ISO 178
	1.88 GPa	273 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	8.24 J/cm	15.4 ft-lb/in	ASTM D256
Izod Impact, Unnotched (ISO)	26.0 kJ/m <sup>2</sup>	12.4 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1U
Dart Drop, Total Energy	38.0 J @Temperature 23.0 Â°C	28.0 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Impact Test	36.0 J	26.6 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	85.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	47.2 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	93.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	51.7 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	85.0 Â°C	185 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	95.0 Â°C @Thickness 3.20 mm	203 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	75.0 Â°C	167 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	80.0 Â°C @Thickness 3.20 mm	176 Â°F @Thickness 0.126 in	unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Surface Resistance	1.00e+9 - 1.00e+11 ohm	1.00e+9 - 1.00e+11 ohm	ASTM D257

## Contact Songhan Plastic Technology Co.,Ltd.

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