

LNP™ STAT-LOY™ NX13401 compound

Polycarbonate + ABS

SABIC Innovative Plastics

Message:

LNP STAT-LOY NX13401 is a compound based on PC+ABS blend. Added features of this material include: Antistat, Flame Retardant, Excellent Release.
Also known as: LNP* STAT-LOY* Compound NX13401
Product reorder name: NX13401

General Information			
Additive	Antistatic		
Features	Antistatic		
	Flame Retardant		
	Good Mold Release		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.23	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.30 to 0.50	%	
Across Flow : 24 hr	0.40 to 0.60	%	
Water Absorption			
24 hr, 50% RH	0.60	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.90	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	2060	MPa	ASTM D638
--	1840	MPa	ISO 527-2/1
Tensile Strength			
Yield ²	45.0	MPa	ASTM D638
Yield	44.0	MPa	ISO 527-2/5
Break ³	38.0	MPa	ASTM D638
Break	37.0	MPa	ISO 527-2/5
Tensile Elongation			
Yield ⁴	4.2	%	ASTM D638
Yield	4.0	%	ISO 527-2/5
Break ⁵	56	%	ASTM D638
Break	23	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁶	1880	MPa	ASTM D790
-- ⁷	1760	MPa	ISO 178
Flexural Stress			

--	63.0	MPa	ISO 178
Yield, 50.0 mm Span ⁸	67.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	820	J/m	ASTM D256
Unnotched Izod Impact Strength ⁹ (23°C)	27	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	38.5	J	ASTM D3763
--	36.4	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	95.0	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ¹⁰	85.0	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	80.0	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹¹	75.0	°C	ISO 75-2/Af
CLTE			ASTM D696
Flow : -30 to 30°C	8.5E-5	cm/cm/°C	
Transverse : -30 to 30°C	9.3E-5	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+9 to 1.0E+11	ohms	ASTM D257
Injection	Nominal Value	Unit	
Drying Temperature	82.2	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.020	%	
Rear Temperature	199 to 210	°C	
Middle Temperature	210 to 221	°C	
Front Temperature	221 to 232	°C	
Processing (Melt) Temp	199 to 232	°C	
Mold Temperature	37.8 to 54.4	°C	
Back Pressure	0.172 to 0.344	MPa	
Screw Speed	30 to 60	rpm	
NOTE			
1.	5.0 mm/min		
2.	Type I, 5.0 mm/min		
3.	Type I, 5.0 mm/min		
4.	Type I, 5.0 mm/min		
5.	Type I, 5.0 mm/min		
6.	1.3 mm/min		
7.	2.0 mm/min		
8.	1.3 mm/min		
9.	80*10*4		
10.	80*10*4 mm		
11.	80*10*4 mm		

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Recommended distributors for this material

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