LNP™ STAT-LOY™ COMPOUND NX13401

NX13401

DESCRIPTION

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

TYPICAL PROPERTY VALUES

Revision 20191219

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, yld, Type I, 5 mm/min	45	MPa	ASTM D 638
Tensile Stress, brk, Type I, 5 mm/min	38	MPa	ASTM D 638
Tensile Strain, yld, Type I, 5 mm/min	4.2	%	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	55.7	%	ASTM D 638
Tensile Modulus, 5 mm/min	2050	MPa	ASTM D 638
Flexural Stress, yld, 1.3 mm/min, 50 mm span	67	MPa	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	1880	MPa	ASTM D 790
Tensile Stress, yield, 5 mm/min	44	MPa	ISO 527
Tensile Stress, break, 5 mm/min	37	MPa	ISO 527
Tensile Strain, yield, 5 mm/min	4	%	ISO 527
Tensile Strain, break, 5 mm/min	23	%	ISO 527
Tensile Modulus, 1 mm/min	1840	MPa	ISO 527
Flexural Stress	63	MPa	ISO 178
Flexural Modulus, 2 mm/min	1750	MPa	ISO 178
IMPACT			
Izod Impact, notched, 23°C	824	J/m	ASTM D 256
Multiaxial Impact	36	J	ISO 6603
Instrumented Impact Total Energy, 23°C	38	J	ASTM D 3763
Izod Impact, unnotched 80*10*4 +23°C	26	kJ/m²	ISO 180/1U
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	95	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	80	°C	ASTM D 648
CTE, -30°C to 30°C, flow	8.5E-05	1/°C	ASTM D 696
CTE, -30°C to 30°C, xflow	9.3E-05	1/°C	ASTM D 696
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	85	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	75	°C	ISO 75/Af
Relative Temp Index, Elec [1]	60	°C	UL 746B
Relative Temp Index, Mech w/impact [1]	60	°C	UL 746B
Relative Temp Index, Mech w/o impact [1]	60	°C	UL 746B
PHYSICAL			
Specific Gravity	1.23	-	ASTM D 792
Density	1.23	g/cm³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.6	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs	0.3 – 0.5	%	ASTM D 955

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Mold Shrinkage, xflow, 24 hrs	0.4 – 0.6	%	ASTM D 955
Moisture Absorption (23°C / 50% RH)	0.9	%	ISO 62
ELECTRICAL			
Surface Resistivity	1.E+09 – 1.E+11	Ohm	ASTM D 257
FLAME CHARACTERISTICS (1)			
UL Yellow Card Link	E121562-101491406	-	-
UL Recognized, 94V-0 Flame Class Rating	≥0.8	mm	UL 94
INJECTION MOLDING			
Drying Temperature	80	°C	
Drying Time	4	hrs	
Maximum Moisture Content	0.02	%	
Melt Temperature	200 – 230	°C	
Front - Zone 3 Temperature	220 – 230	°C	
Middle - Zone 2 Temperature	210 – 220	°C	
Rear - Zone 1 Temperature	200 – 210	°C	
Mold Temperature	40 – 55	°C	
Back Pressure	0.2 – 0.3	MPa	
Screw Speed	30 – 60	rpm	

(1) UL Ratings shown on the technical datasheet might not cover the full range of thicknesses and colors. For details, please see the UL Yellow Card.

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