LNP™ STAT-LOY™ COMPOUND AX11421

AX11421

DESCRIPTION

LNP STAT-LOY AX11421 is a compound based on ABS resin. Added feature of this material is: Antistatic.

TYPICAL PROPERTY VALUES

Revision 20191216

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, yld, Type I, 5 mm/min	30	MPa	ASTM D 638
Tensile Stress, brk, Type I, 5 mm/min	21	MPa	ASTM D 638
Tensile Strain, yld, Type I, 5 mm/min	4.7	%	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	48	%	ASTM D 638
Tensile Modulus, 5 mm/min	1410	MPa	ASTM D 638
Flexural Stress, yld, 1.3 mm/min, 50 mm span	44	MPa	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	1350	MPa	ASTM D 790
Tensile Stress, yield, 5 mm/min	30	MPa	ISO 527
Tensile Stress, break, 5 mm/min	21	MPa	ISO 527
Tensile Strain, yield, 5 mm/min	4.4	%	ISO 527
Tensile Strain, break, 5 mm/min	81	%	ISO 527
Tensile Modulus, 1 mm/min	1310	MPa	ISO 527
Flexural Stress	44	MPa	ISO 178
Flexural Modulus, 2 mm/min	1330	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	NB	J/m	ASTM D 4812
Izod Impact, notched, 23°C	425	J/m	ASTM D 256
Multiaxial Impact	20	J	ISO 6603
Instrumented Impact Total Energy, 23°C	29	J	ASTM D 3763
Izod Impact, unnotched 80*10*4 +23°C	NB	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	39	kJ/m²	ISO 180/1A
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	86	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	69	°C	ASTM D 648
CTE, -30°C to 30°C, flow	1.13E-04	1/°C	ASTM D 696
CTE, -30°C to 30°C, xflow	1.26E-04	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	67	°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	1.05	-	ASTM D 792
Density	1.05	g/cm³	ASTM D 792

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Moisture Absorption, 50% RH, 24 hrs	2	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs	0.5 – 0.7	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	0.7 – 0.9	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs	0.5 – 0.7	%	ISO 294
Mold Shrinkage, xflow, 24 hrs	0.7 – 0.9	%	ISO 294
Moisture Absorption (23°C / 50% RH)	3.7	%	ISO 62
ELECTRICAL			
Surface Resistivity	1.E+07 – 1.E+09	Ohm	ASTM D 257
FLAME CHARACTERISTICS (1)			
UL Yellow Card Link	E121562-101132078	-	-
UL Recognized, 94HB Flame Class Rating	≥1.5	mm	UL 94

(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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