

LNP™ STAT-LOY™ COMPOUND M3000

M
REGION AMERICAS

DESCRIPTION

LNP STAT-LOY* M3000 is a compound based on unfilled Polypropylene resin. Added feature of this material is: Antistat.

TYPICAL PROPERTY VALUES

Revision 20170816

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, yield	28	MPa	ASTM D 638
Tensile Stress, break	18	MPa	ASTM D 638
Tensile Strain, yield	9.6	%	ASTM D 638
Tensile Strain, break	47	%	ASTM D 638
Tensile Modulus, 50 mm/min	1390	MPa	ASTM D 638
Flexural Stress	40	MPa	ASTM D 790
Tensile Stress, yield	28	MPa	ISO 527
Tensile Stress, break	7	MPa	ISO 527
Tensile Strain, yield	8	%	ISO 527
Tensile Strain, break	98.2	%	ISO 527
Tensile Modulus, 1 mm/min	1350	MPa	ISO 527
Flexural Stress	32	MPa	ISO 178
Flexural Modulus	1360	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	NB	J/m	ASTM D 4812
Izod Impact, notched, 23°C	69	J/m	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	7	J	ASTM D 3763
Multiaxial Impact	5	J	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	NB	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	9	kJ/m ²	ISO 180/1A
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	100	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	56	°C	ASTM D 648
CTE, -40°C to 40°C, flow	1.1E-04	1/°C	ASTM E 831

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
CTE, -40°C to 40°C, xflow	1.28E-04	1/°C	ASTM E 831
CTE, -40°C to 40°C, flow	1.1E-04	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	1.28E-04	1/°C	ISO 11359-2
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	103	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	59	°C	ISO 75/Af
PHYSICAL			
Density	0.95	g/cm ³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.85	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs (5)	1.4	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	1.3	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs (5)	1.35	%	ISO 294
Mold Shrinkage, xflow, 24 hrs (5)	1.33	%	ISO 294
Density	0.95	g/cm ³	ISO 1183
ELECTRICAL			
Surface Resistivity	1.E+09 – 1.E+11	Ohm	ASTM D 257
MECHANICAL PROPERTIES			
Flexural modulus	1440	MPa	ISO 178/1A
INJECTION MOLDING			
Drying Temperature	70 – 80	°C	
Drying Time	4	hrs	
Melt Temperature	190 – 200	°C	
Front - Zone 3 Temperature	200 – 210	°C	
Middle - Zone 2 Temperature	195 – 205	°C	
Rear - Zone 1 Temperature	180 – 195	°C	
Mold Temperature	30 – 50	°C	
Back Pressure	0.2 – 0.3	MPa	
Screw Speed	30 – 60	rpm	

DISCLAIMER

The information contained herein may include typical properties of our products or their typical performances when used in certain typical applications. Actual properties of our products, in particular when used in conjunction with any third party material(s) or for any non-typical applications, may differ from typical properties.

It is the customer's responsibility to inspect and test our product(s) in order to satisfy itself as to the suitability of the product(s) for its and its customers particular purposes. The customer is responsible for the appropriate, safe and legal use, processing and handling of all product(s) purchased from us.

Nothing herein is intended to be nor shall it constitute a warranty whatsoever, in particular, warranty of merchantability or fitness for a particular purpose.

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