

LNP™ STAT-LOY™ COMPOUND PF306

PF-30

REGION AMERICAS

DESCRIPTION

LNP* STAT-LOY* PF306 is a compound based on Nylon 6 resin containing 30% Glass Fiber. Added feature of this grade includes: Antistat.

TYPICAL PROPERTY VALUES

Revision 20170816

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, yield	93	MPa	ASTM D 638
Tensile Stress, break	93	MPa	ASTM D 638
Tensile Strain, yield	2.7	%	ASTM D 638
Tensile Strain, break	2.8	%	ASTM D 638
Tensile Modulus, 50 mm/min	7580	MPa	ASTM D 638
Flexural Stress	96	MPa	ASTM D 790
Tensile Stress, yield	83	MPa	ISO 527
Tensile Stress, break	83	MPa	ISO 527
Tensile Strain, yield	2.7	%	ISO 527
Tensile Strain, break	2.8	%	ISO 527
Tensile Modulus, 1 mm/min	7470	MPa	ISO 527
Flexural Stress	106	MPa	ISO 178
Flexural Modulus	6000	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	955	J/m	ASTM D 4812
Izod Impact, notched, 23°C	101	J/m	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	17	J	ASTM D 3763
Multiaxial Impact	6	J	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	45	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	7	kJ/m ²	ISO 180/1A
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	202	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	185	°C	ASTM D 648

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
CTE, -40°C to 40°C, flow	1.19E-04	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	3.96E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, flow	1.19E-04	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	4.E-05	1/°C	ISO 11359-2
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	201	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	182	°C	ISO 75/Af
PHYSICAL			
Density	1.39	g/cm ³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	5.1	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs (5)	0.2 – 0.4	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	0.7 – 0.9	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs (5)	0.28	%	ISO 294
Mold Shrinkage, xflow, 24 hrs (5)	0.82	%	ISO 294
Density	1.39	g/cm ³	ISO 1183
ELECTRICAL			
Surface Resistivity	1.E+09 – 1.E+11	Ohm	ASTM D 257
MECHANICAL PROPERTIES			
Flexural modulus	5510	MPa	ISO 178/1A
INJECTION MOLDING			
Drying Temperature	80	°C	
Drying Time	4	hrs	
Maximum Moisture Content	0.15 – 0.25	%	
Melt Temperature	265 – 275	°C	
Front - Zone 3 Temperature	275 – 290	°C	
Middle - Zone 2 Temperature	265 – 275	°C	
Rear - Zone 1 Temperature	250 – 260	°C	
Mold Temperature	80 – 95	°C	
Back Pressure	0.3 – 0.7	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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