



LNP™ STAT-LOY™ Compound AF306

Americas: COMMERCIAL

Also known as: LNP™ STAT-LOY™ Compound AF-30

Product reorder name: AF306

LNP™ STAT-LOY™ AF306 is a compound based on ABS resin containing 30% Glass Fiber. Added feature of this material is: Antistatic.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, yield	390	kgf/cm ²	ASTM D 638
Tensile Stress, break	390	kgf/cm ²	ASTM D 638
Tensile Strain, yield	1	%	ASTM D 638
Tensile Strain, break	1	%	ASTM D 638
Tensile Modulus, 50 mm/min	70300	kgf/cm ²	ASTM D 638
Flexural Stress	490	kgf/cm ²	ASTM D 790
Flexural Modulus	56200	kgf/cm ²	ASTM D 790
Tensile Stress, yield	43	MPa	ISO 527
Tensile Stress, break	43	MPa	ISO 527
Tensile Strain, yield	1.1	%	ISO 527
Tensile Strain, break	1	%	ISO 527
Tensile Modulus, 1 mm/min	6010	MPa	ISO 527
Flexural Stress	63	MPa	ISO 178
Flexural Modulus	5700	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	25	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	4	cm-kgf/cm	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	70	cm-kgf	ASTM D 3763
Multiaxial Impact	17	cm-kgf	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	17	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	5	kJ/m ²	ISO 180/1A
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	102	°C	ASTM D 648





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TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	95	°C	ASTM D 648
CTE, -40°C to 40°C, flow	1.13E-04	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	4.32E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, flow	1.14E-04	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	4.3E-05	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	71	°C	ISO 75/Af
PHYSICAL			
Density	1.29	g/cm ³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	3	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs (5)	0.2 - 0.4	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	0.4 - 0.6	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs (5)	0.3	%	ISO 294
Mold Shrinkage, xflow, 24 hrs (5)	0.45	%	ISO 294
Density	1.28	g/cm ³	ISO 1183
ELECTRICAL			
Surface Resistivity	1.E+10 - 1.E+12	Ohm	ASTM D 257





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PROCESSING PARAMETERS	TYPICAL VALUE	Unit
Injection Molding		
Drying Temperature	70 - 80	°C
Drying Time	4	hrs
Maximum Moisture Content	0.05 - 0.1	%
Melt Temperature	200 - 210	°C
Front - Zone 3 Temperature	205 - 215	°C
Middle - Zone 2 Temperature	195 - 205	°C
Rear - Zone 1 Temperature	180 - 195	°C
Mold Temperature	10 - 50	°C
Back Pressure	0.2 - 0.3	MPa
Screw Speed	30 - 60	rpm

