LNP™ STAT-LOY™ COMPOUND M3000

M

REGION AMERICAS

DESCRIPTION

LNP STAT-LOY M3000 compound is based on unfilled Polypropylene (PP) resin containing proprietary fillers. Added features of this grade include: Permanently Anti-Static.

GENERAL INFORMATION	
Features	Antistatic, No PFAS intentionally added
Fillers	Unreinforced
Polymer Types	Polypropylene, Unspecified (PP, Unspecified)
Processing Techniques	Injection Molding

INDUSTRY	SUB INDUSTRY
Electrical and Electronics	Electronic Components
Industrial	Material Handling

TYPICAL PROPERTY VALUES

Revision 20231109

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL [1]			
Tensile Stress, yield	28	MPa	ASTM D638
Tensile Strain, yield	9.6	%	ASTM D638
Tensile Strain, break	47	%	ASTM D638
Tensile Modulus, 50 mm/min	1390	MPa	ASTM D638
Flexural Stress	40	MPa	ASTM D790
Flexural Modulus	1440	MPa	ASTM D790
Tensile Stress, yield	28	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 [1]			
Izod Impact, unnotched, 23°C	NB	J/m	ASTM D4812
Izod Impact, notched, 23°C	69	J/m	ASTM D256
Instrumented Dart Impact Energy @ peak, 23°C	7	J	ASTM D3763
Multiaxial Impact	5	J	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	NB	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	10	kJ/m²	ISO 180/1A
THERMAL [1]			
HDT, 0.45 MPa, 3.2 mm, unannealed	100	°C	ASTM D648

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
HDT, 1.82 MPa, 3.2mm, unannealed	56	°C	ASTM D648
CTE, -40°C to 40°C, flow	1.1E-04	1/°C	ASTM E831
CTE, -40°C to 40°C, xflow	1.28E-04	1/°C	ASTM E831
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 (1)			
Density	0.95	g/cm³	ASTM D792
Moisture Absorption, (23°C/50% RH/24 hrs)	0.85	%	ASTM D570
Mold Shrinkage, flow, 24 hrs (2)	1.4	%	ASTM D955
Mold Shrinkage, xflow, 24 hrs (2)	1.3	%	ASTM D955
Mold Shrinkage, flow, 24 hrs (2)	1.35	%	ISO 294
Mold Shrinkage, xflow, 24 hrs (2)	1.33	%	ISO 294
Density	0.95	g/cm³	ISO 1183
ELECTRICAL (1)			
Surface Resistivity (3)	1.E+09 – 1.E+11	Ω	ASTM D257
INJECTION MOLDING (4)			
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	

(1) The information stated on Technical Datasheets should be used as indicative only for material selection purposes and not be utilized as specification or used for part or tool design.

(2) Measurements made from laboratory test coupon. Actual shrinkage may vary outside of range due to differences in processing conditions, equipment, part geometry and tool design. It is recommended that mold shrinkage studies be performed with surrogate or legacy tooling prior to cutting tools for new molded article.

(3) Measurement meets requirements as specified in ASTM D4496.

(4) Injection Molding parameters are only mentioned as general guidelines. These may not apply or may need adjustment in specific situations such as low shot sizes, large part molding, thin wall molding and gas-assist molding.

ADDITIONAL PRODUCT NOTES

No PFAS intentionally added: The grade listed in this document does not contain PFAS intentionally added during Seller's manufacturing process and is not expected to contain unintentional PFAS impurities. Each user is responsible for evaluating the presence of unintentional PFAS impurities.

DISCLAIMER