+135-3858-6433 (GuangDong)
+188-1699-6168 (ShangHai)
+852-6957-5415 (HongKong)

LNP™ STAT-LOY™ Compound M3000C

Americas: COMMERCIAL

Also known as: LNP™ STAT-LOY™ Compound M- CCS
Product reorder name: M3000C

LNP STAT-LOY M3000C is a compound based on unfilled Polypropylene resin. Added features of this grade include: Clean Compound System, Antistat.

TYPICAL PROPERTIES[1]	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, brk, Type I, 5 mm/min	180	kgf/cm²	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	689	%	ASTM D 638
Tensile Modulus, 50 mm/min	7800	kgf/cm²	ASTM D 638
Flexural Stress, brk, 1.3 mm/min, 50 mm span	250	kgf/cm²	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	8700	kgf/cm²	ASTM D 790
Tensile Stress, break, 5 mm/min	24	MPa	ISO 527
Tensile Strain, break, 5 mm/min	690	%	ISO 527
Tensile Modulus, 1 mm/min	1180	MPa	ISO 527
Flexural Stress	38	MPa	ISO 178
Flexural Modulus, 2 mm/min	1960	MPa	ISO 178
IMPACT			
Izod Impact, notched, 23°C	7	cm-kgf/cm	ASTM D 256
Multiaxial Impact	259	cm-kgf	ISO 6603
Instrumented Impact Total Energy, 23°C	295	cm-kgf	ASTM D 3763
Izod Impact, notched 80*10*4 +23°C	6	kJ/m²	ISO 180/1A
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	74	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	49	°C	ASTM D 648
CTE, -30°C to 30°C, flow	1.28E-04	1/°C	ASTM D 696
CTE, -30°C to 30°C, xflow	1.31E-04	1/°C	ASTM D 696
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	75	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	49	°C	ISO 75/Af
PHYSICAL			
Density	0.93	g/cm³	ASTM D 792

(1) Typical values only. Variations within normal tolerances are possible for various colors. All values are measured after at least 48 hours storage at 23°C/50% relative humidity. All properties, except the melt volume and melt flow rates, are measured on injection molded samples. All samples tested under ISO test standards are prepared according to ISO 294.

(2) Only typical data for selection purposes. Not to be used for part or tool design.
(3) This rating is not intended to reflect hazards presented by this or any other material under actual fire conditions.
(4) Internal measurements according to UL standards.
(5) 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.
(6) Needs hard coat to consistently pass 60 sec Vertical Burn.

+135-3858-6433 (GuangDong)
+188-1699-6168 (ShangHai)
+852-6957-5415 (HongKong)

LNP™ STAT-LOY™ Compound M3000C

Americas: COMMERCIAL

TYPICAL PROPERTIES[1]	TYPICAL VALUE	Unit	Standard
PHYSICAL			
Moisture Absorption, 50% RH, 24 hrs	0.16	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs (5)	1 - 2	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	1 - 2	%	ASTM D 955
Density	0.93	g/cm³	ISO 1183
Moisture Absorption (23°C / 50% RH)	0.16	%	ISO 62
ELECTRICAL			
Surface Resistivity	1.E+10 - 1.E+12	Ohm	ASTM D 257

(1) Typical values only. Variations within normal tolerances are possible for various colors. All values are measured after at least 48 hours storage at 23°C/50% relative humidity. All properties, except the melt volume and melt flow rates, are measured on injection molded samples. All samples tested under ISO test standards are prepared according to ISO 294.

(2) Only typical data for selection purposes. Not to be used for part or tool design.
(3) This rating is not intended to reflect hazards presented by this or any other material under actual fire conditions.
(4) Internal measurements according to UL standards.
(5) 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.
(6) Needs hard coat to consistently pass 60 sec Vertical Burn.

+135-3858-6433 (GuangDong)
+188-1699-6168 (ShangHai)
+852-6957-5415 (HongKong)

LNP™ STAT-LOY™ Compound M3000C

Americas: COMMERCIAL

PROCESSING PARAMETERS	TYPICAL VALUE	Unit
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

(1) Typical values only. Variations within normal tolerances are possible for various colors. All values are measured after at least 48 hours storage at 23°C/50% relative humidity. All properties, except the melt volume and melt flow rates, are measured on injection molded samples. All samples tested under ISO test standards are prepared according to ISO 294.

(2) Only typical data for selection purposes. Not to be used for part or tool design.
(3) This rating is not intended to reflect hazards presented by this or any other material under actual fire conditions.
(4) Internal measurements according to UL standards.
(5) 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.
(6) Needs hard coat to consistently pass 60 sec Vertical Burn.