



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/cm ²	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	689	%	ASTM D 638
Tensile Modulus, 50 mm/min	7800	kgf/cm ²	ASTM D 638
Flexural Stress, brk, 1.3 mm/min, 50 mm span	250	kgf/cm ²	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	8700	kgf/cm ²	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/m ²	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/cm ³	ASTM D 792





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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/cm ³	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





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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

