+135-3858-6433 (GuangDong)
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+852-6957-5415 (HongKong)

LNP™ STAT-LOY™ Compound M3000

Americas: COMMERCIAL

Also known as: LNP™ STAT-LOY™ Compound M
Product reorder name: M3000

LNP STAT-LOY™ M3000 is a compound based on unfilled Polypropylene resin. Added feature of this material is: Antistat.

TYPICAL PROPERTIES[1]	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, yield	290	kgf/cm²	ASTM D 638
Tensile Stress, break	180	kgf/cm²	ASTM D 638
Tensile Strain, yield	9.6	%	ASTM D 638
Tensile Strain, break	47	%	ASTM D 638
Tensile Modulus, 50 mm/min	14200	kgf/cm²	ASTM D 638
Flexural Stress	410	kgf/cm²	ASTM D 790
Flexural Modulus	14700	kgf/cm²	ASTM D 790
Tensile Stress, yield	28	MPa	ISO 527
Tensile Stress, break	7	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			
Izod Impact, unnotched, 23°C	NB	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	7	cm-kgf/cm	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	80	cm-kgf	ASTM D 3763
Multiaxial Impact	58	cm-kgf	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	NB	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	9	kJ/m²	ISO 180/1A
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	100	°C	ASTM D 648

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TYPICAL PROPERTIES[1]	TYPICAL VALUE	Unit	Standard
THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	56	°C	ASTM D 648
CTE, -40°C to 40°C, flow	1.1E-04	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	1.28E-04	1/°C	ASTM E 831
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			
Density	0.95	g/cm³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.85	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs (5)	1.4	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	1.3	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs (5)	1.35	%	ISO 294
Mold Shrinkage, xflow, 24 hrs (5)	1.33	%	ISO 294
Density	0.95	g/cm³	ISO 1183
ELECTRICAL			
Surface Resistivity	1.E+09 - 1.E+11	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