

LNP™ STAT-LOY™ M3000 compound

Polypropylene

SABIC Innovative Plastics

Message:

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

Also known as: LNP* STAT-LOY* Compound M

Product reorder name: M3000

General Information			
Additive	Antistatic		
Features	Antistatic		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.950	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			ASTM D955, ISO 294-4
Flow : 24 hr	1.4	%	
Across Flow : 24 hr	1.3	%	
Water Absorption (24 hr, 50% RH)	0.85	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	1390	MPa	ASTM D638
--	1350	MPa	ISO 527-2/1
Tensile Strength			
Yield	28.6	MPa	ASTM D638, ISO 527-2
Break	18.4	MPa	ASTM D638
Break	7.84	MPa	ISO 527-2
Tensile Elongation			
Yield	9.6	%	ASTM D638
Yield	8.1	%	ISO 527-2
Break	47	%	ASTM D638
Break	98	%	ISO 527-2
Flexural Modulus			
--	1450	MPa	ASTM D790
--	1360	MPa	ISO 178
Flexural Strength			
--	40.7	MPa	ASTM D790
--	32.2	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	69	J/m	ASTM D256
23°C ²	9.1	kJ/m ²	ISO 180/1A

Unnotched Izod Impact (23°C)	No Break		ASTM D4812, ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	7.94	J	ASTM D3763
--	5.77	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	100	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ³	103	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	56.7	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁴	59.0	°C	ISO 75-2/Af
CLTE			ASTM E831, ISO 11359-2
Flow : -40 to 40°C	1.1E-4	cm/cm/°C	
Transverse : -40 to 40°C	1.3E-4	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+9 to 1.0E+11	ohms	ASTM D257
Injection	Nominal Value	Unit	
Drying Temperature	71.1 to 82.2	°C	
Drying Time	4.0	hr	
Rear Temperature	182 to 193	°C	
Middle Temperature	193 to 204	°C	
Front Temperature	199 to 210	°C	
Processing (Melt) Temp	188 to 199	°C	
Mold Temperature	32.2 to 48.9	°C	
Back Pressure	0.172 to 0.344	MPa	
Screw Speed	30 to 60	rpm	
NOTE			
1.	50 mm/min		
2.	80*10*4		
3.	80*10*4 mm		
4.	80*10*4 mm		

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