

LNP™ COLORCOMP™ I1000 compound

Polyamide 612

SABIC Innovative Plastics

Message:

LNP COLORCOMP I1000 is an unfilled Nylon 6/12

Also known as: LNP* COLORCOMP* Compound I-1000

Product reorder name: I1000

General Information			
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.06	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow : 24 hr	1.0 to 3.0	%	
Across Flow : 24 hr	1.0 to 3.0	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2400	MPa	ISO 527-2/1
Tensile Stress (Yield)	62.0	MPa	ISO 527-2/5
Tensile Strain			
Yield	4.5	%	ISO 527-2/5
Break ¹	100	%	ASTM D638
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed, 64.0 mm Span ²	135	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	55.0	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ³	62.0	°C	ISO 75-2/Af
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+12	ohms	ASTM D257
Volume Resistivity	1.0E+15	ohms · cm	ASTM D257
Dielectric Constant			ASTM D150
100 Hz	3.60		
1 MHz	3.20		
Dissipation Factor			ASTM D150
100 Hz	0.020		
1 kHz	0.020		
100 kHz	0.014		
Flammability	Nominal Value	Unit	Test Method
Oxygen Index	27	%	ISO 4589-2
Injection	Nominal Value	Unit	Test Method
Drying Temperature	82.2	°C	
Drying Time	4.0	hr	

Suggested Max Moisture	0.12 to 0.20	%
Rear Temperature	254 to 266	°C
Middle Temperature	260 to 271	°C
Front Temperature	271 to 282	°C
Processing (Melt) Temp	271 to 277	°C
Mold Temperature	65.6 to 93.3	°C
Back Pressure	0.172 to 0.344	MPa
Screw Speed	30 to 60	rpm

NOTE		
1.	Type I, 5.0 mm/min	
2.	80*10*4 mm	
3.	80*10*4 mm	

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