

LNP™ COLORCOMP™ G1000 compound

Polysulfone

SABIC Innovative Plastics

Message:

LNP COLORCOMP G1000 is an unfilled Polysulfone resin. Added feature of this grade is: Transparent.

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

Product reorder name: G1000

General Information			
Appearance	Clear/Transparent		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.24	g/cm ³	ASTM D792
Molding Shrinkage - Flow (24 hr)	0.70	%	ASTM D955
Water Absorption (24 hr, 50% RH)	0.30	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	2480	MPa	ASTM D638
Tensile Strength ² (Break)	70.3	MPa	ASTM D638
Tensile Elongation ³ (Break)	50 to 100	%	ASTM D638
Flexural Modulus ⁴ (50.0 mm Span)	2690	MPa	ASTM D790
Flexural Strength ⁵ (Yield, 50.0 mm Span)	106	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	69	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.20 mm)	174	°C	ASTM D648
CLTE - Flow (-30 to 30°C)	5.6E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	3.0E+17	ohms · cm	ASTM D257
Dissipation Factor			ASTM D150
50 Hz	7.0E-4		
60 Hz	7.0E-4		
1 kHz	1.0E-3		
1 MHz	6.0E-3		
Injection	Nominal Value	Unit	
Drying Temperature	121 to 149	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.050	%	
Rear Temperature	327 to 338	°C	
Middle Temperature	338 to 349	°C	
Front Temperature	349 to 360	°C	

Processing (Melt) Temp	360 to 371	°C
Mold Temperature	149	°C
Back Pressure	0.172 to 0.344	MPa
Screw Speed	30 to 60	rpm

NOTE		
1.	50 mm/min	
2.	Type I, 5.0 mm/min	
3.	Type I, 5.0 mm/min	
4.	1.3 mm/min	
5.	1.3 mm/min	

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