LNP™ COLORCOMP™ Compound G1000

Americas: COMMERCIAL

Also known as: LNP™ COLORCOMP™ Compound G-1000
Product reorder name: G1000

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

TYPICAL PROPERTIES[1]	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, brk, Type I, 5 mm/min	710	kgf/cm²	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	50 - 100	%	ASTM D 638
Tensile Modulus, 50 mm/min	25200	kgf/cm²	ASTM D 638
Flexural Stress, yld, 1.3 mm/min, 50 mm span	1080	kgf/cm²	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	27400	kgf/cm²	ASTM D 790
IMPACT			
Izod Impact, notched, 23°C	7	cm-kgf/cm	ASTM D 256
THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	174	°C	ASTM D 648
CTE, -30°C to 30°C, flow	5.6E-05	1/°C	ASTM D 696
PHYSICAL			
Specific Gravity	1.24	-	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.3	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs (5)	0.7	%	ASTM D 955
ELECTRICAL			
Volume Resistivity	3.E+17	Ohm-cm	ASTM D 257
Dissipation Factor, 50/60 Hz	0.0007	-	ASTM D 150
Dissipation Factor, 1 kHz	0.001	-	ASTM D 150
Dissipation Factor, 1 MHz	0.006	-	ASTM D 150

(1) Typical values only. Variations within normal tolerances are possible for various colors. All values are measured after at least 48 hours storage at 23°C/50% relative humidity. All properties, except the melt volume and melt flow rates, are measured on injection molded samples. All samples tested under ISO test standards are prepared according to ISO 294.

(2) Only typical data for selection purposes. Not to be used for part or tool design.
(3) This rating is not intended to reflect hazards presented by this or any other material under actual fire conditions.
(4) Internal measurements according to UL standards.
(5) Measurements made from laboratory test coupon. Actual shrinkage may vary outside of range due to differences in processing conditions, equipment, part geometry and tool design. It is recommended that mold shrinkage studies be performed with surrogate or legacy tooling prior to cutting tools for new molded article.
(6) Needs hard coat to consistently pass 60 sec Vertical Burn.

Source GMD, last updated:

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PROCESSING PARAMETERS	TYPICAL VALUE	Unit
Injection Molding		
Drying Temperature	120 - 150	°C
Drying Time	4	hrs
Maximum Moisture Content	0.05	%
Melt Temperature	360 - 370	°C
Front - Zone 3 Temperature	350 - 360	°C
Middle - Zone 2 Temperature	340 - 350	°C
Rear - Zone 1 Temperature	325 - 340	°C
Mold Temperature	150	°C
Back Pressure	0.2 - 0.3	MPa
Screw Speed	30 - 60	rpm

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