

LNP* Colorcomp* Compound G1000

Americas: COMMERCIAL

LNP* Colorcomp* G1000 is an unfilled Polysulfone grade containing no fillers. Characteristics of this grade is Transparency.

Property

TYPICAL PROPERTIES ⁽¹⁾			
	Value	Unit	Standard
MECHANICAL			
Tensile Stress, brk, Type I, 5 mm/min	70	MPa	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	50 - 100	%	ASTM D 638
Tensile Modulus, 50 mm/min	2480	MPa	ASTM D 638
Flexural Stress, yld, 1.3 mm/min, 50 mm span	106	MPa	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	2690	MPa	ASTM D 790
IMPACT			
Izod Impact, notched, 23°C	69	J/m	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

Source GMD, last updated:2010/07/26

Processing

THESE PROPERTY VALUES ARE NOT INTENDED FOR SPECIFICATION PURPOSES.

PLEASE CHECK WITH YOUR [\(LOCAL SALES OFFICE\)](#) FOR AVAILABILITY IN YOUR REGION

(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.

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