

SABIC Innovative Plastics LNP COLORCOMP G1000 PSU

Category : Polymer , Thermoplastic , Polysulfone (PSU)

Material Notes:

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

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-COLORCOMP-G1000-PSU.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.24 g/cc	1.24 g/cc	ASTM D792
Moisture Absorption	0.300 %	0.300 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.0070 cm/cm	0.0070 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	70.0 MPa	10200 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	50 - 100 %	50 - 100 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	2.48 GPa	360 ksi	50 mm/min; ASTM D638
Flexural Yield Strength	106 MPa	15400 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	2.69 GPa	390 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.690 J/cm	1.29 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	56.0 $\mu\text{m/m-}^{\circ}\text{C}$	31.1 $\mu\text{in/in-}^{\circ}\text{F}$	ASTM D696
	@Temperature -30.0 - 30.0 $^{\circ}\text{C}$	@Temperature -22.0 - 86.0 $^{\circ}\text{F}$	
Deflection Temperature at 1.8 MPa (264 psi)	174 $^{\circ}\text{C}$	345 $^{\circ}\text{F}$	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	

Optical Properties	Metric	English	Comments
Transmission, Visible	90 %	90 %	transparent; thickness not quantified

Electrical Properties	Metric	English	Comments
Volume Resistivity	3.00e+17 ohm-cm	3.00e+17 ohm-cm	ASTM D257

Electrical Properties	Metric	English	Comments
Dissipation Factor	@Frequency 50.0 - 60.0 Hz	@Frequency 50.0 - 60.0 Hz	ASTM D150
	0.0010	0.0010	ASTM D150
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	0.0060	0.0060	ASTM D150
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	

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