LNP™ COLORCOMP™ COMPOUND G1000L

G1000L

DESCRIPTION

LNP COLORCOMP G1000L is an unfilled Polysulfone resin. Added feature of this grade is: Transparent, FDA compatability

TYPICAL PROPERTY VALUES

Revision 20191210

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, brk, Type I, 5 mm/min	70.3	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-5	1/°C	ASTM D 696
PHYSICAL			
Melt Flow Rate, 330°C/2.16 kgf	17	g/10 min	ASTM D 1238
Specific Gravity	1.24	-	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	.30	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs	.70	%	ASTM D 955
ELECTRICAL			
Volume Resistivity	5.0E+16	Ohm-cm	ASTM D 257
Dissipation Factor, 50/60 Hz	3.03	-	ASTM D 150
Dissipation Factor, 1 kHz	3.04	-	ASTM D 150
Dissipation Factor, 1 MHz	3.02	-	ASTM D 150
INJECTION MOLDING			
Drying Temperature	135 – 163	°C	
Drying Time	3.5	hrs	
Maximum Moisture Content	.02	%	
Melt Temperature	329 – 385	°C	
Mold Temperature	140	°C	

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