LNP™ COLORCOMP™ COMPOUND G1000EJ

DESCRIPTION

LNP COLORCOMP G1000EJ compound is based on unfilled Polysulfone (PSU) resin. Added features of this grade include: Low Extractables, Healthcare.

GENERAL INFORMATION	
Features	Aesthetics/Visual effects, Food contact, Healthcare/Formula lock, High temperature resistance, No PFAS intentionally added
Fillers	Unreinforced
Polymer Types	Polysulfone (PSU)
Processing Techniques	Injection Molding

INDUSTRY	SUB INDUSTRY
Building and Construction	Water Management
Consumer	Home Appliances
Hygiene and Healthcare	Pharmaceutical Packaging and Drug Delivery, Surgical devices, General Healthcare, Patient Testing
Packaging	Industrial Packaging, Food & Beverage

TYPICAL PROPERTY VALUES

Revision 20260513

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL [1]			
Tensile Stress, brk, Type I, 50 mm/min	70.3	MPa	ASTM D638
Tensile Strain, brk, Type I, 50 mm/min	75	%	ASTM D638
Tensile Modulus, 50 mm/min	2480	MPa	ASTM D638
Flexural Strength, 1.3 mm/min, 50 mm span	106	MPa	ASTM D790
Flexural Modulus, 1.3 mm/min, 50 mm span	2690	MPa	ASTM D790
IMPACT [1]			
Izod impact, notched			
23°C	69	J/m	ASTM D256
THERMAL [1]			
HDT, 1.82 MPa, 3.2mm, unannealed	174	°C	ASTM D648
CTE, -30°C to 30°C, flow	5.6E-5	1/°C	ASTM D696
PHYSICAL [1]			
Melt Flow Rate			
330°C/2.16 kgf	17	g/10 min	ASTM D1238
Specific Gravity	1.24	-	ASTM D792
Water Absorption, (23°C/24hrs)	0.3	%	ASTM D570
Mold Shrinkage, flow, 24 hrs [2]	0.7	%	ASTM D955
ELECTRICAL [1]			
Volume Resistivity	5.0E+16	Ω.cm	ASTM D257
Dissipation Factor			
50/60 Hz	3.03	-	ASTM D150

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
1 kHz	3.04	-	ASTM D150
1 MHz	3.02	-	ASTM D150
INJECTION MOLDING [3]			
Drying Temperature	135 – 163	°C	
Drying Time	3.5	Hrs	
Maximum Moisture Content	0.02	%	
Melt Temperature	329 – 385	°C	
Mold Temperature	140	°C	

(1) The information stated on Technical Datasheets should be used as indicative only for material selection purposes and not be utilized as specification or used for part or tool design.

(2) 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.

(3) Injection Molding parameters are only mentioned as general guidelines. These may not apply or may need adjustment in specific situations such as low shot sizes, large part molding, thin wall molding and gas-assist molding.

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