LNP™ COLORCOMP™ COMPOUND J1000AE

J-1000 EM

DESCRIPTION

LNP COLORCOMP J1000AE compound is based on unfilled Polyethersulfone (PES) resin. Added features of this grade include: Easy Molding.

GENERAL INFORMATION	
Features	Good Processability, Aesthetics/Visual effects, High temperature resistance, No PFAS intentionally added
Fillers	Unreinforced
Polymer Types	Polyethersulfone (PESU)
Processing Techniques	Injection Molding

INDUSTRY	SUB INDUSTRY
Automotive	Automotive Interiors
Consumer	Sport/Leisure, Personal Accessory, Home Appliances, Commercial Appliance
Electrical and Electronics	Mobile Phone - Computer - Tablets
Industrial	Electrical

TYPICAL PROPERTY VALUES

Revision 20260513

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL [1]			
Tensile Stress, brk, Type I, 5 mm/min	88	MPa	ASTM D638
Tensile Strain, yld, Type I, 5 mm/min	6.5	%	ASTM D638
Tensile Modulus, 50 mm/min	2690	MPa	ASTM D638
Flexural Stress, brk, 1.3 mm/min, 50 mm span	125	MPa	ASTM D790
Flexural Modulus, 1.3 mm/min, 50 mm span	2620	MPa	ASTM D790
IMPACT [1]			
Izod impact, notched			
23°C	53	J/m	ASTM D256
THERMAL [1]			
HDT, 1.82 MPa, 3.2mm, unannealed	200	°C	ASTM D648
CTE, -30°C to 30°C, flow	5.2E-05	1/°C	ASTM D696
Relative Temp Index, Elec [2]	180	°C	UL 746B
Relative Temp Index, Mech w/impact [2]	170	°C	UL 746B
Relative Temp Index, Mech w/o impact [2]	180	°C	UL 746B
PHYSICAL [1]			
Specific Gravity	1.37	-	ASTM D792
Moisture Absorption, (23°C/50% RH/24 hrs)	0.5	%	ASTM D570
Mold Shrinkage, flow, 24 hrs [3]	0.6	%	ASTM D955
ELECTRICAL [1]			
Volume Resistivity	1.75E+15	Ω.cm	ASTM D257

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Dissipation Factor			
50/60 Hz	0.0017	-	ASTM D150
1 kHz	0.0022	-	ASTM D150
1 MHz	0.0056	-	ASTM D150
Hot-Wire Ignition (HWI), PLC 3	≥0.81	mm	UL 746A
Hot-Wire Ignition (HWI), PLC 4	≥0.43	mm	UL 746A
High Amp Arc Ignition (HAI), PLC 0	≥0.43	mm	UL 746A
High Amp Arc Ignition (HAI), PLC 1	≥0.81	mm	UL 746A
FLAME CHARACTERISTICS (2)			
UL Yellow Card Link	E121562-101283890	-	-
UL Recognized, 94V-0 Flame Class Rating	≥0.81	mm	UL 94
UL Recognized, 94V-2 Flame Class Rating	≥0.43	mm	UL 94
INJECTION MOLDING (4)			
Drying Temperature	120 – 150	°C	
Drying Time	4	Hrs	
Maximum Moisture Content	0.05	%	
Melt Temperature	355 – 370	°C	
Front - Zone 3 Temperature	370 – 380	°C	
Middle - Zone 2 Temperature	360 – 370	°C	
Rear - Zone 1 Temperature	345 – 355	°C	
Mold Temperature	140 – 150	°C	
Back Pressure	0.3 – 0.7	MPa	
Screw Speed	60 – 100	rpm	

(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) UL Ratings shown on the technical datasheet might not cover the full range of thicknesses and colors. For details, please see the UL Yellow Card.

(3) 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.

(4) 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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