

LNPTM COLORCOMPTM 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

TEST METHODS PROPERTIES **TYPICAL VALUES** UNITS 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 ASTM D790 MPa IMPACT (1) Izod Impact, notched, 23°C 53 ASTM D256 J/m 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) °C 180 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 + 15ASTM D257 Ω.cm Dissipation Factor, 50/60 Hz 0.0017 ASTM D150

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CHEMISTRY THAT MATTERS

Revision 20240715



PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Dissipation Factor, 1 kHz	0.0022	-	ASTM D150
Dissipation Factor, 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	<u>E121562-101283890</u>		
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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