

# LNP™ COLORCOMP™ COMPOUND J1000AE

J-1000 EM  
REGION AMERICAS

## DESCRIPTION

LNP COLORCOMP J1000AE is an unfilled Polyethersulfone. Added feature of this grade is: Easy Molding.

## TYPICAL PROPERTY VALUES

Revision 20170816

| PROPERTIES                                   | TYPICAL VALUES | UNITS  | TEST METHODS |
|----------------------------------------------|----------------|--------|--------------|
| <b>MECHANICAL</b>                            |                |        |              |
| Tensile Stress, brk, Type I, 5 mm/min        | 88             | MPa    | ASTM D 638   |
| Tensile Strain, yld, Type I, 5 mm/min        | 6.5            | %      | ASTM D 638   |
| Tensile Modulus, 50 mm/min                   | 2690           | MPa    | ASTM D 638   |
| Flexural Stress, brk, 1.3 mm/min, 50 mm span | 125            | MPa    | ASTM D 790   |
| Flexural Modulus, 1.3 mm/min, 50 mm span     | 2620           | MPa    | ASTM D 790   |
| <b>IMPACT</b>                                |                |        |              |
| Izod Impact, notched, 23°C                   | 53             | J/m    | ASTM D 256   |
| <b>THERMAL</b>                               |                |        |              |
| HDT, 1.82 MPa, 3.2mm, unannealed             | 200            | °C     | ASTM D 648   |
| CTE, -30°C to 30°C, flow                     | 5.2E-05        | 1/°C   | ASTM D 696   |
| <b>PHYSICAL</b>                              |                |        |              |
| Specific Gravity                             | 1.37           | -      | ASTM D 792   |
| Moisture Absorption, 50% RH, 24 hrs          | 0.5            | %      | ASTM D 570   |
| Mold Shrinkage, flow, 24 hrs (5)             | 0.6            | %      | ASTM D 955   |
| <b>ELECTRICAL</b>                            |                |        |              |
| Volume Resistivity                           | 1.75E+15       | Ohm-cm | ASTM D 257   |
| Dissipation Factor, 50/60 Hz                 | 0.0017         | -      | ASTM D 150   |
| Dissipation Factor, 1 kHz                    | 0.0022         | -      | ASTM D 150   |
| Dissipation Factor, 1 MHz                    | 0.0056         | -      | ASTM D 150   |
| <b>FLAME CHARACTERISTICS</b>                 |                |        |              |
| UL Recognized, 94V-0 Flame Class Rating (3)  | 1.5            | mm     | UL 94        |
| <b>INJECTION MOLDING</b>                     |                |        |              |
| Drying Temperature                           | 120 – 150      | °C     |              |
| Drying Time                                  | 4              | hrs    |              |

| PROPERTIES                  | TYPICAL VALUES | UNITS | TEST METHODS |
|-----------------------------|----------------|-------|--------------|
| 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   |              |

## DISCLAIMER

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