

# LNP™ COLORCOMP™ J1000AE compound

Polyethersulfone

SABIC Innovative Plastics

## Message:

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

Also known as: LNP\* COLORCOMP\* Compound J-1000 EM

Product reorder name: J1000AE

| General Information                                              |                   |                   |             |
|------------------------------------------------------------------|-------------------|-------------------|-------------|
| UL YellowCard                                                    | E121562-101283890 |                   |             |
| Features                                                         | Good Moldability  |                   |             |
| Processing Method                                                | Injection Molding |                   |             |
| Physical                                                         | Nominal Value     | Unit              | Test Method |
| Specific Gravity                                                 | 1.37              | g/cm <sup>3</sup> | ASTM D792   |
| Molding Shrinkage - Flow (24 hr)                                 | 0.60              | %                 | ASTM D955   |
| Water Absorption (24 hr, 50% RH)                                 | 0.50              | %                 | ASTM D570   |
| Mechanical                                                       | Nominal Value     | Unit              | Test Method |
| Tensile Modulus <sup>1</sup>                                     | 2690              | MPa               | ASTM D638   |
| Tensile Strength <sup>2</sup> (Break)                            | 88.9              | MPa               | ASTM D638   |
| Tensile Elongation <sup>3</sup> (Yield)                          | 6.5               | %                 | ASTM D638   |
| Flexural Modulus <sup>4</sup> (50.0 mm Span)                     | 2620              | MPa               | ASTM D790   |
| Flexural Strength <sup>5</sup> (Break, 50.0 mm Span)             | 125               | MPa               | ASTM D790   |
| Impact                                                           | Nominal Value     | Unit              | Test Method |
| Notched Izod Impact (23°C)                                       | 53                | J/m               | ASTM D256   |
| Thermal                                                          | Nominal Value     | Unit              | Test Method |
| Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.20 mm) | 200               | °C                | ASTM D648   |
| CLTE - Flow (-30 to 30°C)                                        | 5.2E-5            | cm/cm/°C          | ASTM D696   |
| Electrical                                                       | Nominal Value     | Unit              | Test Method |
| Volume Resistivity                                               | 1.8E+15           | ohms · cm         | ASTM D257   |
| Dissipation Factor                                               |                   |                   | ASTM D150   |
| 50 Hz                                                            | 1.7E-3            |                   |             |
| 60 Hz                                                            | 1.7E-3            |                   |             |
| 1 kHz                                                            | 2.2E-3            |                   |             |
| 1 MHz                                                            | 5.6E-3            |                   |             |
| Flammability                                                     | Nominal Value     | Unit              | Test Method |
| Flame Rating (1.50 mm)                                           | V-0               |                   | UL 94       |
| Injection                                                        | Nominal Value     | Unit              | Test Method |
| Drying Temperature                                               | 121 to 149        | °C                |             |
| Drying Time                                                      | 4.0               | hr                |             |
| Suggested Max Moisture                                           | 0.050             | %                 |             |

|                        |                |     |
|------------------------|----------------|-----|
| Rear Temperature       | 343 to 354     | °C  |
| Middle Temperature     | 360 to 371     | °C  |
| Front Temperature      | 371 to 382     | °C  |
| Processing (Melt) Temp | 354 to 371     | °C  |
| Mold Temperature       | 138 to 149     | °C  |
| Back Pressure          | 0.344 to 0.689 | MPa |
| Screw Speed            | 60 to 100      | rpm |

#### NOTE

1. 50 mm/min
2. Type I, 5.0 mm/min
3. Type I, 5.0 mm/min
4. 1.3 mm/min
5. 1.3 mm/min

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