

## LNP\* Colorcomp\* Compound J1000AE

Americas: COMMERCIAL

LNP\* Colorcomp\* J1000AE is an unfilled compound based on Polyethersulfone. Characteristics of this grade are Easy Molding.

### Property

| TYPICAL PROPERTIES <sup>(1)</sup>            |          |        |            |
|--|----------|--------|------------|
|  | Value    | Unit   | Standard   |
| <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      |

Source GMD, last updated:2010/07/26

### Processing

THESE PROPERTY VALUES ARE NOT INTENDED FOR SPECIFICATION PURPOSES.

PLEASE CHECK WITH YOUR [\(LOCAL SALES OFFICE\)](#) FOR AVAILABILITY IN YOUR REGION

(1) Typical values only. Variations within normal tolerances are possible for various colors. All values are measured after at least 48 hours storage at 23°C/50% relative humidity. All properties, except the melt volume and melt flow rates, are measured on injection molded samples. All samples tested under ISO test standards are prepared according to ISO 294.

(2) Only typical data for selection purposes. Not to be used for part or tool design.

(3) This rating is not intended to reflect hazards presented by this or any other material under actual fire conditions.

(4) Internal measurements according to UL standards.

(5) 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.

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