



## LNP\* Thermocomp\* Compound 2Z004 Americas: COMMERCIAL

LNP\* 2Z004 is a compound based on Ethylenetetrafluoroethylene (ETFE) containing Milled Glass.

| YPICAL PROPERTIES <sup>1</sup>           | TYPICAL VALUE | Unit                | Standard    |
|--|---------------|---------------------|-------------|
| MECHANICAL                               |               |                     |             |
| Tensile Stress, yld, Type I, 5 mm/min    | 290           | kgf/cm <sup>2</sup> | ASTM D 638  |
| Tensile Stress, brk, Type I, 5 mm/min    | 210           | kgf/cm <sup>2</sup> | ASTM D 638  |
| Tensile Strain, yld, Type I, 5 mm/min    | 23            | %                   | ASTM D 638  |
| Tensile Strain, brk, Type I, 5 mm/min    | 53            | %                   | ASTM D 638  |
| Tensile Modulus, 50 mm/min               | 17400         | kgf/cm <sup>2</sup> | ASTM D 638  |
| Flexural Modulus, 1.3 mm/min, 50 mm span | 13000         | kgf/cm <sup>2</sup> | ASTM D 790  |
| Tensile Stress, yield, 5 mm/min          | 27            | MPa                 | ISO 527     |
| Tensile Stress, break, 5 mm/min          | 22            | MPa                 | ISO 527     |
| Tensile Strain, yield, 5 mm/min          | 22            | %                   | ISO 527     |
| Tensile Strain, break, 5 mm/min          | 78            | %                   | ISO 527     |
| Tensile Modulus, 1 mm/min                | 1510          | MPa                 | ISO 527     |
| Flexural Stress                          | 24            | MPa                 | ISO 178     |
| Flexural Modulus, 2 mm/min               | 1210          | MPa                 | ISO 178     |
| IMPACT                                   |               |                     |             |
| Izod Impact, unnotched, 23°C             | 136           | cm-kgf/cm           | ASTM D 4812 |
| Izod Impact, notched, 23°C               | 62            | cm-kgf/cm           | ASTM D 256  |
| Instrumented Impact Total Energy, 23°C   | 270           | cm-kgf              | ASTM D 3763 |
| Izod Impact, unnotched 80*10*4 +23°C     | 119           | kJ/m²               | ISO 180/1U  |
| Izod Impact, notched 80*10*4 +23°C       | 37            | kJ/m²               | ISO 180/1A  |
| THERMAL                                  |               |                     |             |
| HDT, 0.45 MPa, 3.2 mm, unannealed        | 88            | °C                  | ASTM D 648  |
| HDT, 1.82 MPa, 3.2mm, unannealed         | 52            | °C                  | ASTM D 648  |
| CTE, -30°C to 30°C, flow                 | 8.E-05        | 1/°C                | ASTM D 696  |

广州华秀塑胶有限公司 (Sabic沙伯基础创新塑料 一级经销商) www.va-so.cn 联系电话: 020-82582555

(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.

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| TYPICAL PROPERTIES <sup>1</sup>        | TYPICAL VALU | E Unit            | Standard   |
|--|--------------|-------------------|------------|
| THERMAL                                |              |                   |            |
| CTE, -30°C to 30°C, xflow              | 8.7E-05      | 1/°C              | ASTM D 696 |
| HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm | 89           | °C                | ISO 75/Bf  |
| HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm  | 50           | °C                | ISO 75/Af  |
| PHYSICAL                               |              |                   |            |
| Specific Gravity                       | 1.84         | -                 | ASTM D 792 |
| Density                                | 1.83         | g/cm <sup>3</sup> | ASTM D 792 |
| Moisture Absorption, 50% RH, 24 hrs    | 0            | %                 | ASTM D 570 |



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| PROCESSING PARAMETERS       | TYPICAL VALUE | Unit |
|-----------------------------|---------------|------|
| Injection Molding           |               |      |
| Drying Temperature          | 120 - 150     | °C   |
| Drying Time                 | 4             | hrs  |
| Melt Temperature            | 315           | °C   |
| Front - Zone 3 Temperature  | 325 - 340     | °C   |
| Middle - Zone 2 Temperature | 300 - 325     | °C   |
| Rear - Zone 1 Temperature   | 280 - 300     | °C   |
| Mold Temperature            | 90 - 120      | °C   |
| Back Pressure               | 0.2 - 0.3     | MPa  |
| Screw Speed                 | 30 - 60       | rpm  |



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