



## LNP\* Thermocomp\* Compound ZF406XXX

### Asia Pacific: COMMERCIAL

Also known as: LNP\* Thermocomp\* Compound HT SOLDER ZF-1006 FR ECO

Product reorder name: ZF406XXX

LNP THERMOCOMP\* ZF406XXX is a compound based on PPO Blend resin containing Flame Retardant, Glass Fiber. Added features of this material include: Flame Retardant.

| TYPICAL PROPERTIES <sup>1</sup>       | TYPICAL VALUE | UNIT              | STANDARD    |
|---------------------------------------|---------------|-------------------|-------------|
| <b>MECHANICAL</b>                     |               |                   |             |
| Tensile Stress, break                 | 95            | MPa               | ASTM D 638  |
| Tensile Strain, break                 | 0.9           | %                 | ASTM D 638  |
| Tensile Modulus, 50 mm/min            | 11530         | MPa               | ASTM D 638  |
| Flexural Stress                       | 199           | MPa               | ASTM D 790  |
| Flexural Modulus                      | 11450         | MPa               | ASTM D 790  |
| Tensile Stress, break                 | 119           | MPa               | ISO 527     |
| Tensile Strain, break                 | 1.2           | %                 | ISO 527     |
| Tensile Modulus, 1 mm/min             | 11690         | MPa               | ISO 527     |
| Flexural Stress                       | 192           | MPa               | ISO 178     |
| Flexural Modulus                      | 9900          | MPa               | ISO 178     |
| <b>IMPACT</b>                         |               |                   |             |
| Izod Impact, unnotched, 23°C          | 523           | J/m               | ASTM D 4812 |
| Izod Impact, notched, 23°C            | 80            | J/m               | ASTM D 256  |
| Izod Impact, unnotched 80*10*4 +23°C  | 29            | kJ/m <sup>2</sup> | ISO 180/1U  |
| Izod Impact, notched 80*10*4 +23°C    | 7             | kJ/m <sup>2</sup> | ISO 180/1A  |
| <b>THERMAL</b>                        |               |                   |             |
| HDT, 1.82 MPa, 3.2mm, unannealed      | 263           | °C                | ASTM D 648  |
| CTE, -40°C to 40°C, flow              | 1.98E-05      | 1/°C              | ASTM E 831  |
| CTE, -40°C to 40°C, xflow             | 5.76E-05      | 1/°C              | ASTM E 831  |
| HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm | 262           | °C                | ISO 75/Af   |
| <b>PHYSICAL</b>                       |               |                   |             |
| Density                               | 1.54          | g/cm <sup>3</sup> | ASTM D 792  |
| Mold Shrinkage, flow, 24 hrs          | 0.1 - 0.3     | %                 | ASTM D 955  |
| Mold Shrinkage, xflow, 24 hrs         | 0.5 - 0.7     | %                 | ASTM D 955  |



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|-----------------------------------------------|---------------|-------------------|-------------|
| <b>PHYSICAL</b>                               |               |                   |             |
| Mold Shrinkage, flow, 24 hrs                  | 0.1 - 0.3     | %                 | ISO 294     |
| Mold Shrinkage, xflow, 24 hrs                 | 0.5 - 0.7     | %                 | ISO 294     |
| Density                                       | 1.53          | g/cm <sup>3</sup> | ISO 1183    |
| <b>FLAME CHARACTERISTICS</b>                  |               |                   |             |
| UL Compliant, 94V-0 Flame Class Rating (3)(4) | 1.55          | mm                | UL 94 by GE |