

**Product Texts**

LNP THERMOCOMP DF0049 compound is based on Polycarbonate (PC) resin containing 20% glass fiber. Added features of this grade include: Flame Retardant.

UL Yellow Card Link [E121562-101377970](https://www.ul.com/yellow-card/E121562-101377970)

| <b>Mechanical properties</b>  | <b>Value</b> | <b>Unit</b> | <b>Test Standard</b> |
|-------------------------------|--------------|-------------|----------------------|
| <b>ASTM Data</b>              |              |             |                      |
| Tensile Modulus               | <b>6620</b>  | MPa         | ASTM D 638           |
| Tensile Strength at Break     | <b>103</b>   | MPa         | ASTM D 638           |
| Elongation at Break           | <b>2.8</b>   | %           | ASTM D 638           |
| Flexural Modulus              | <b>6590</b>  | MPa         | ASTM D 790           |
| Flexural Strength             | <b>172</b>   | MPa         | ASTM D 790           |
| Izod Impact notched, 1/8 in   | <b>96</b>    | J/m         | ASTM D 256           |
| Izod Impact unnotched, 1/8 in | <b>818</b>   | J/m         | ASTM D 256           |

| <b>Thermal properties</b>             | <b>Value</b> | <b>Unit</b> | <b>Test Standard</b> |
|---------------------------------------|--------------|-------------|----------------------|
| <b>ISO Data</b>                       |              |             |                      |
| Burning behav. at 1.5 mm nom. thickn. | <b>V-0</b>   | class       | IEC 60695-11-10      |
| Thickness tested                      | <b>1.6</b>   | mm          | -                    |
| <b>ASTM Data</b>                      |              |             |                      |
| DTUL @ 264 psi                        | <b>143</b>   | °C          | ASTM D 648           |

| <b>Processing Recommendation Injection Molding</b> | <b>Value</b>     | <b>Unit</b> | <b>Test Standard</b> |
|--|------------------|-------------|----------------------|
| Pre-drying - Temperature                           | <b>120</b>       | °C          | -                    |
| Pre-drying - Time                                  | <b>4</b>         | h           | -                    |
| Processing humidity                                | <b>≤0.02</b>     | %           | -                    |
| Melt temperature                                   | <b>305 - 325</b> | °C          | -                    |
| Mold temperature                                   | <b>80 - 110</b>  | °C          | -                    |
| Zone 1   | <b>295 - 305</b> | °C          | -                    |
| Zone 2   | <b>310 - 320</b> | °C          | -                    |
| Zone 3   | <b>320 - 330</b> | °C          | -                    |
| Screw speed  | <b>30 - 60</b>   | rpm         | -                    |
| Back pressure                                      | <b>0.2 - 0.3</b> | MPa         | -                    |

**Characteristics****Processing**

Injection Molding

**Additives**

Flame retarding agent

**Special Characteristics**

Flame retardant

**Regional Availability**

North America, Europe, Asia Pacific