



LNP™ THERMOTUF™ Compound MF0049I  
Europe-Africa-Middle East: COMMERCIAL

LNP THERMOTUF MF0049I is a compound based on Polypropylene resin containing Glass Fiber, Flame Retardant. Added features include; Flame Retardant, Chemically Coupled.

| TYPICAL PROPERTIES <sup>1</sup>               | TYPICAL VALUE | Unit  | Standard          |
|-----------------------------------------------|---------------|-------|-------------------|
| <b>MECHANICAL</b>                             |               |       |                   |
| Tensile Stress, yield, 5 mm/min               | 57            | MPa   | ISO 527           |
| Tensile Strain, break, 5 mm/min               | 3.7           | %     | ISO 527           |
| Tensile Modulus, 1 mm/min                     | 5300          | MPa   | ISO 527           |
| Flexural Stress, yield, 2 mm/min              | 88            | MPa   | ISO 178           |
| Flexural Modulus, 2 mm/min                    | 4700          | MPa   | ISO 178           |
| <b>IMPACT</b>                                 |               |       |                   |
| Izod Impact, unnotched 80*10*4 +23°C          | 35            | kJ/m² | ISO 180/1U        |
| Izod Impact, notched 80*10*4 +23°C            | 10            | kJ/m² | ISO 180/1A        |
| <b>THERMAL</b>                                |               |       |                   |
| CTE, 23°C to 60°C, flow                       | 3.2E-05       | 1/°C  | ISO 11359-2       |
| CTE, 23°C to 60°C, xflow                      | 1.18E-04      | 1/°C  | ISO 11359-2       |
| HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm         | 156           | °C    | ISO 75/Af         |
| <b>PHYSICAL</b>                               |               |       |                   |
| Mold Shrinkage, flow (5)                      | 0.34          | %     | SABIC Method      |
| Density                                       | 1.37          | g/cm³ | ISO 1183          |
| <b>FLAME CHARACTERISTICS</b>                  |               |       |                   |
| UL Compliant, 94V-0 Flame Class Rating (3)(4) | 1.6           | mm    | UL 94 by SABIC-IP |





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| PROCESSING PARAMETERS       | TYPICAL VALUE | Unit |
|-----------------------------|---------------|------|
| <b>Injection Molding</b>    |               |      |
| Drying Temperature          | 80            | °C   |
| Drying Time                 | 4             | hrs  |
| Melt Temperature            | 225 - 250     | °C   |
| Front - Zone 3 Temperature  | 240 - 250     | °C   |
| Middle - Zone 2 Temperature | 215 - 225     | °C   |
| Rear - Zone 1 Temperature   | 195 - 205     | °C   |
| Mold Temperature            | 30 - 50       | °C   |
| Back Pressure               | 0.2 - 0.3     | MPa  |
| Screw Speed                 | 30 - 60       | rpm  |

