



## LNP™ THERMOCOMP™ Compound MFB82I

### Europe-Africa-Middle East: COMMERCIAL

Also known as: LNP™ THERMOCOMP™ Compound MFX-100-10 MG-S

Product reorder name: MFB82I

LNP\* Thermocomp\* MFB82I is a compound based on Polypropylene resin containing Glass Fiber, Glass Bead. Added features include: Chemically Coupled

| TYPICAL PROPERTIES <sup>1</sup>             | TYPICAL VALUE | Unit              | Standard     |
|---------------------------------------------|---------------|-------------------|--------------|
| <b>MECHANICAL</b>                           |               |                   |              |
| Tensile Stress, break, 5 mm/min             | 50            | MPa               | ISO 527      |
| Tensile Strain, break, 5 mm/min             | 3.5           | %                 | ISO 527      |
| Tensile Modulus, 1 mm/min                   | 4500          | MPa               | ISO 527      |
| Flexural Stress, break, 2 mm/min            | 58            | MPa               | ISO 178      |
| Flexural Modulus, 2 mm/min                  | 3800          | MPa               | ISO 178      |
| <b>IMPACT</b>                               |               |                   |              |
| Izod Impact, unnotched 80*10*4 +23°C        | 35            | kJ/m <sup>2</sup> | ISO 180/1U   |
| Izod Impact, notched 80*10*4 +23°C          | 14            | kJ/m <sup>2</sup> | ISO 180/1A   |
| <b>THERMAL</b>                              |               |                   |              |
| CTE, 23°C to 60°C, flow                     | 3.7E-05       | 1/°C              | ISO 11359-2  |
| CTE, 23°C to 60°C, xflow                    | 1.25E-04      | 1/°C              | ISO 11359-2  |
| HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm       | 133           | °C                | ISO 75/Af    |
| <b>PHYSICAL</b>                             |               |                   |              |
| Mold Shrinkage on Tensile Bar, flow (2) (5) | 0.1 - 0.3     | %                 | SABIC Method |
| Density                                     | 1.32          | g/cm <sup>3</sup> | ISO 1183     |



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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  |