

## POLIFOR® L6 GF/30 NATURALE - PP

### Description

Polypropylene, homopolymer, 30% glass fiber reinforced, chemically coupled, suggested for use until 120 °C as max operating temperature

| Physical properties         | Value     | Unit              | Test Standard   |
|-----------------------------|-----------|-------------------|-----------------|
| Density                     | 1120      | kg/m <sup>3</sup> | ISO 1183        |
| Melt flow rate, MFR         | 2.5       | g/10min           | ISO 1133        |
| MFR temperature             | 230       | °C                | ISO 1133        |
| MFR load                    | 2.16      | kg                | ISO 1133        |
| Molding shrinkage, parallel | 0.1 - 0.4 | %                 | ISO 294-4, 2577 |
| Molding shrinkage, normal   | 0.4 - 0.8 | %                 | ISO 294-4, 2577 |

| Mechanical properties                 | Value | Unit              | Test Standard |
|---------------------------------------|-------|-------------------|---------------|
| Tensile modulus                       | 6700  | MPa               | ISO 527-2/1A  |
| Tensile stress at break, 5mm/min      | 85    | MPa               | ISO 527-2/1A  |
| Tensile strain at break, 5mm/min      | 3.5   | %                 | ISO 527-2/1A  |
| Flexural modulus, 23 °C               | 6700  | MPa               | ISO 178       |
| Flexural strength, 23 °C              | 140   | MPa               | ISO 178       |
| Charpy impact strength, 23 °C         | 60    | kJ/m <sup>2</sup> | ISO 179/1eU   |
| Charpy notched impact strength, 23 °C | 13    | kJ/m <sup>2</sup> | ISO 179/1eA   |
| Izod impact notched, 23 °C            | 13    | kJ/m <sup>2</sup> | ISO 180/1A    |

| Thermal properties                       | Value | Unit  | Test Standard |
|------------------------------------------|-------|-------|---------------|
| DTUL at 1.8 MPa                          | 148   | °C    | ISO 75-1, -2  |
| Vicat softening temperature, 50 °C/h 50N | 140   | °C    | ISO 306       |
| Flammability at thickness h              | HB    | class | UL 94         |
| thickness tested (h)                     | 1.50  | mm    | UL 94         |
| UL recognition (h)                       | UL    | -     | UL 94         |

### Typical injection moulding processing conditions

| Pre Drying         | Value     | Unit | Test Standard |
|--------------------|-----------|------|---------------|
| Drying time        | 2 - 3     | h    | -             |
| Drying temperature | 80 - 100  | °C   | -             |
| Temperature        | Value     | Unit | Test Standard |
| Zone1 temperature  | 200 - 220 | °C   | -             |
| Zone2 temperature  | 220 - 240 | °C   | -             |
| Zone3 temperature  | 240 - 260 | °C   | -             |
| Melt temperature   | 240 - 260 | °C   | -             |
| Mold temperature   | 50 - 80   | °C   | -             |

### Other text information

#### Longer pre-drying times/storage

This product should be stored in a covered facility and kept away from moisture and heat.

### Characteristics

| Product Categories | Processing        |
|--------------------|-------------------|
| Glass reinforced   | Injection molding |