

## POLIFOR® CL3 GF/30 NATURALE - PP

### Description

Polypropylene, copolymer, 30% glass fiber reinforced, chemically coupled

| Physical properties | Value | Unit              | Test Standard |
|---------------------|-------|-------------------|---------------|
| Density             | 1120  | kg/m <sup>3</sup> | ISO 1183      |
| Melt flow rate, MFR | 3     | g/10min           | ISO 1133      |
| MFR temperature     | 230   | °C                | ISO 1133      |
| MFR load            | 2.16  | kg                | ISO 1133      |

| Mechanical properties                | Value | Unit              | Test Standard |
|--------------------------------------|-------|-------------------|---------------|
| Tensile modulus                      | 6200  | MPa               | ISO 527-2/1A  |
| Tensile stress at break, 5mm/min     | 68    | MPa               | ISO 527-2/1A  |
| Tensile strain at break, 5mm/min     | 3.5   | %                 | ISO 527-2/1A  |
| Flexural modulus, 23°C               | 5800  | MPa               | ISO 178       |
| Charpy impact strength, 23°C         | 80    | kJ/m <sup>2</sup> | ISO 179/1eU   |
| Charpy notched impact strength, 23°C | 20    | kJ/m <sup>2</sup> | ISO 179/1eA   |
| Izod impact notched, 23°C            | 20    | kJ/m <sup>2</sup> | ISO 180/1A    |

| Thermal properties          | Value | Unit  | Test Standard |
|-----------------------------|-------|-------|---------------|
| DTUL at 1.8 MPa             | 138   | °C    | ISO 75-1, -2  |
| 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   | -             |
| Mold temperature   | 50 - 80   | °C   | -             |

### Characteristics

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

