

## POLIFOR® 12 TR/20 UV GRIGIO 7097 Y1 - PP

Experimental Grade. Please contact your Celanese representative for further information.

### Description

Polypropylene, 20% mineral filled, UV stabilised.

| Physical properties | Value | Unit              | Test Standard |
|---------------------|-------|-------------------|---------------|
| Density             | 1050  | kg/m <sup>3</sup> | ISO 1183      |
| Melt flow rate, MFR | 10    | 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                      | 2700  | MPa               | ISO 527-2/1A  |
| Tensile stress at yield, 50mm/min    | 31    | MPa               | ISO 527-2/1A  |
| Tensile strain at yield, 50mm/min    | 2.5   | %                 | ISO 527-2/1A  |
| Tensile strain at break, 50mm/min    | 10    | %                 | ISO 527-2/1A  |
| Flexural modulus, 23°C               | 2500  | MPa               | ISO 178       |
| Flexural strength, 23°C              | 44    | MPa               | ISO 178       |
| Charpy impact strength, 23°C         | 75    | kJ/m <sup>2</sup> | ISO 179/1eU   |
| Charpy notched impact strength, 23°C | 3.5   | kJ/m <sup>2</sup> | ISO 179/1eA   |
| Izod impact notched, 23°C            | 3.8   | kJ/m <sup>2</sup> | ISO 180/1A    |

| Thermal properties                      | Value | Unit  | Test Standard  |
|-----------------------------------------|-------|-------|----------------|
| DTUL at 1.8 MPa                         | 62    | °C    | ISO 75-1, -2   |
| Vicat softening temperature, 50°C/h 50N | 88    | °C    | ISO 306        |
| Flammability @1.6mm nom. thickn.        | HB    | class | UL 94          |
| Glow wire flammability index, 3.2 mm    | 650   | °C    | IEC 60695-2-12 |

### 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  | 190 - 210 | °C   | -             |
| Zone2 temperature  | 210 - 230 | °C   | -             |
| Zone3 temperature  | 220 - 240 | °C   | -             |
| Melt temperature   | 230 - 250 | °C   | -             |
| Mold temperature   | 30 - 60   | °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

#### Special Characteristics

UV resistant

#### Processing

Injection molding

#### Product Categories

Mineral reinforced