

## POLIFOR® 12 TR/40 NERO - PP

### Description

Polypropylene, homopolymer, 40% mineral filled.

| Physical properties | Value | Unit              | Test Standard |
|---------------------|-------|-------------------|---------------|
| Density             | 1270  | 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                      | 4300  | MPa               | ISO 527-2/1A  |
| Tensile stress at yield, 50mm/min    | 28    | MPa               | ISO 527-2/1A  |
| Flexural modulus, 23°C               | 4100  | MPa               | ISO 178       |
| Flexural strength, 23°C              | 45    | MPa               | ISO 178       |
| Charpy impact strength, 23°C         | 20    | kJ/m <sup>2</sup> | ISO 179/1eU   |
| Charpy notched impact strength, 23°C | 1.6   | kJ/m <sup>2</sup> | ISO 179/1eA   |
| Izod impact notched, 23°C            | 2.1   | kJ/m <sup>2</sup> | ISO 180/1A    |

| Thermal properties                      | Value | Unit  | Test Standard |
|-----------------------------------------|-------|-------|---------------|
| Vicat softening temperature, 50°C/h 50N | 98    | °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  | 190 - 210 | °C   | -             |
| Zone2 temperature  | 210 - 230 | °C   | -             |
| Zone3 temperature  | 220 - 240 | °C   | -             |
| Nozzle 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

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