

## POLIFOR® 5000/V0-AF-EP NATURALE - PP

### Description

Polypropylene, copolymer, V0, low smoke emission, without halogen and Antimony oxide.

| Physical properties | Value | Unit              | Test Standard |
|---------------------|-------|-------------------|---------------|
| Density             | 1080  | kg/m <sup>3</sup> | ISO 1183      |
| Melt flow rate, MFR | 14    | g/10min           | ISO 1133      |
| MFR temperature     | 230   | °C                | ISO 1133      |
| MFR load            | 2.16  | kg                | ISO 1133      |

| Mechanical properties                | Value | Unit              | Test Standard |
|--------------------------------------|-------|-------------------|---------------|
| Tensile stress at yield, 50mm/min    | 20    | MPa               | ISO 527-2/1A  |
| Tensile strain at break, 50mm/min    | 10    | %                 | ISO 527-2/1A  |
| Flexural modulus, 23°C               | 2000  | MPa               | ISO 178       |
| Charpy impact strength, 23°C         | 20    | kJ/m <sup>2</sup> | ISO 179/1eU   |
| Charpy notched impact strength, 23°C | 1.8   | kJ/m <sup>2</sup> | ISO 179/1eA   |
| Izod impact notched, 23°C            | 2     | kJ/m <sup>2</sup> | ISO 180/1A    |

| Thermal properties                      | Value | Unit  | Test Standard  |
|-----------------------------------------|-------|-------|----------------|
| Vicat softening temperature, 50°C/h 50N | 78    | °C    | ISO 306        |
| Limiting oxygen index (LOI)             | 30    | %     | ISO 4589-1/-2  |
| Flammability @1.6mm nom. thickn.        | V-0   | class | UL 94          |
| Glow wire ignition temperature, 3.2 mm  | 775   | °C    | IEC 60695-2-13 |
| Glow wire flammability index, 3.2 mm    | 960   | °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  | 180 - 200 | °C   | -             |
| Zone2 temperature  | 190 - 210 | °C   | -             |
| Zone3 temperature  | 200 - 220 | °C   | -             |
| Nozzle temperature | 200 - 220 | °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 | Additives             |
|-------------------------|-----------------------|
| Flame retardant         | Flame retarding agent |

### Processing

Injection molding

