

# Polifor® 6 GF/30 NATURALE

Polypropylene Homopolymer

SO.F.TER. SPA

## Message:

Polypropylene homopolymer, 30% glass fiber reinforced

| General Information                                     |                                  |                   |                         |
|---|----------------------------------|-------------------|-------------------------|
| Filler / Reinforcement                                  | Glass Fiber,30% Filler by Weight |                   |                         |
| Features  | Homopolymer                      |                   |                         |
| Uses  | Automotive Applications          |                   |                         |
| Agency Ratings  | EC 1907/2006 (REACH)             |                   |                         |
| Appearance  | Natural Color                    |                   |                         |
| Processing Method                                       | Injection Molding                |                   |                         |
| Physical  | Nominal Value                    | Unit              | Test Method             |
| Specific Gravity  | 1.13                             | g/cm <sup>3</sup> | ASTM D792               |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)               | 2.5                              | g/10 min          | ASTM D1238              |
| Molding Shrinkage                                       | 0.30                             | %                 | Internal Method         |
| Mechanical  | Nominal Value                    | Unit              | Test Method             |
| Tensile Strength (Yield)                                | 50.0                             | MPa               | ASTM D638               |
| Tensile Elongation (Break)                              | 3.0                              | %                 | ASTM D638               |
| Flexural Modulus  | 4800                             | MPa               | ASTM D790               |
| Impact  | Nominal Value                    | Unit              | Test Method             |
| Notched Izod Impact                                     |                                  |                   | ASTM D256               |
| 0°C   | 45                               | J/m               |                         |
| 23°C  | 65                               | J/m               |                         |
| Thermal   | Nominal Value                    | Unit              | Test Method             |
| Deflection Temperature Under Load (1.8 MPa, Unannealed) | 125                              | °C                | ASTM D648               |
| Vicat Softening Temperature                             | 110                              | °C                | ASTM D1525 <sup>1</sup> |
| Ball Pressure Test (125°C)                              | Pass                             |                   | IEC 335                 |
| Electrical  | Nominal Value                    | Unit              | Test Method             |
| Comparative Tracking Index                              | 600                              | V                 | IEC 60112               |
| Flammability  | Nominal Value                    | Unit              | Test Method             |
| Flame Rating  |                                  |                   | UL 94                   |
| 1.60 mm   | HB                               |                   |                         |
| 3.20 mm   | HB                               |                   |                         |
| Glow Wire Ignition Temperature                          | 650                              | °C                | IEC 60695-2-13          |
| Oxygen Index  | 21                               | %                 | ASTM D2863              |
| Injection   | Nominal Value                    | Unit              |                         |
| Rear Temperature  | 220                              | °C                |                         |

|                    |              |    |
|--------------------|--------------|----|
| Middle Temperature | 240          | °C |
| Front Temperature  | 250          | °C |
| Mold Temperature   | 50.0 to 70.0 | °C |

NOTE

1. Rate A (50°C/h), Loading 2 (50 N)

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