

# SLOVALEN® PH 69 GF 30 TS

Polypropylene

Plastcom

## Message:

Modified homopolymer PP for injection moulding, chemically reinforced with 30% glass fibre, thermo stable. Increased strength in comparison with unfilled PP. Applied in all industry branches. Increased strength, toughness, modulus in tension due to the modification. Delivered in natural mode and in the full RAL colour scale.

| General Information                       |                                  |                   |             |
|-------------------------------------------|----------------------------------|-------------------|-------------|
| Filler / Reinforcement                    | Glass Fiber,30% Filler by Weight |                   |             |
| Additive                                  | Heat Stabilizer                  |                   |             |
| Features                                  | Chemically Coupled               |                   |             |
|                                           | General Purpose                  |                   |             |
|                                           | Good Stiffness                   |                   |             |
|                                           | Good Strength                    |                   |             |
|                                           | Good Toughness                   |                   |             |
|                                           | Heat Stabilized                  |                   |             |
|                                           | Homopolymer                      |                   |             |
| Uses                                      | General Purpose                  |                   |             |
| Appearance                                | Colors Available                 |                   |             |
|                                           | Natural Color                    |                   |             |
| Processing Method                         | Injection Molding                |                   |             |
| Resin ID (ISO 1043)                       | PP                               |                   |             |
| Physical                                  | Nominal Value                    | Unit              | Test Method |
| Density                                   | 1.10                             | g/cm <sup>3</sup> | ISO 1183    |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) | 8.0                              | g/10 min          | ISO 1133    |
| Molding Shrinkage                         |                                  |                   | STM 64 0808 |
| Across Flow                               | 1.2                              | %                 |             |
| Flow                                      | 0.78                             | %                 |             |
| Mechanical                                | Nominal Value                    | Unit              | Test Method |
| Tensile Modulus                           | 6400                             | MPa               | ISO 527-2   |
| Tensile Stress (Yield)                    | 77.0                             | MPa               | ISO 527-2   |
| Tensile Strain (Yield)                    | 3.0                              | %                 | ISO 527-2   |
| Flexural Modulus                          | 5100                             | MPa               | ISO 178     |
| Flexural Stress                           | 117                              | MPa               | ISO 178     |
| Impact                                    | Nominal Value                    | Unit              | Test Method |
| Charpy Notched Impact Strength            |                                  |                   | ISO 179     |
| -20°C                                     | 6.0                              | kJ/m <sup>2</sup> |             |

| 23°C                                               | 8.0           | kJ/m <sup>2</sup> |             |
|----------------------------------------------------|---------------|-------------------|-------------|
| Charpy Unnotched Impact Strength                   |               |                   | ISO 179     |
| -20°C                                              | 41            | kJ/m <sup>2</sup> |             |
| 23°C                                               | 43            | kJ/m <sup>2</sup> |             |
| Thermal                                            | Nominal Value | Unit              | Test Method |
| Heat Deflection Temperature (0.45 MPa, Unannealed) | 160           | °C                | ISO 75-2/B  |
| Vicat Softening Temperature                        | 163           | °C                | ISO 306/B   |
| Melting Temperature (DSC)                          | 160           | °C                | ISO 3146    |
| Injection                                          | Nominal Value | Unit              |             |
| Processing (Melt) Temp                             | 200 to 250    | °C                |             |
| Mold Temperature                                   | 40.0 to 80.0  | °C                |             |
| Injection Pressure                                 | 70.0 to 120   | MPa               |             |

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