

# SLOVALEN® PH 81 C 40

Polypropylene

Plastcom

## Message:

Modified homopolymer and copolymer PP for injection moulding with the content of 40% microground, chemically modified talc. Increased strength, rigidity and thermal application up to 100°C depending on the talc content. Decreased shrinkage. Packing material, garden flower-pots, toys, dowels, clamps, hinge, office chairs, holders, covers of motors, chassis, protection trims in the automotive industry, electroinstallation boxes in the electrical industry. Fulfills the glow wire 750°C. Delivered in the full RAL colour scale. Higher ITT in comparison with PH 51 C 40.

| General Information                       |                                    |                   |             |
|-------------------------------------------|------------------------------------|-------------------|-------------|
| Filler / Reinforcement                    | Talc,40% Filler by Weight          |                   |             |
| Features                                  | Copolymer                          |                   |             |
|                                           | Good Strength                      |                   |             |
|                                           | Homopolymer                        |                   |             |
|                                           | Medium Rigidity                    |                   |             |
| Uses                                      | Automotive Applications            |                   |             |
|                                           | Electrical/Electronic Applications |                   |             |
|                                           | Living Hinges                      |                   |             |
|                                           | Packaging                          |                   |             |
|                                           | Toys                               |                   |             |
| Appearance                                | Colors Available                   |                   |             |
|                                           | Natural Color                      |                   |             |
| Processing Method                         | Injection Molding                  |                   |             |
| Resin ID (ISO 1043)                       | PP                                 |                   |             |
| Physical                                  | Nominal Value                      | Unit              | Test Method |
| Density                                   | 1.25                               | g/cm <sup>3</sup> | ISO 1183    |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) | 12                                 | g/10 min          | ISO 1133    |
| Molding Shrinkage                         |                                    |                   | STM 64 0808 |
| Across Flow                               | 1.2                                | %                 |             |
| Flow                                      | 1.2                                | %                 |             |
| Mechanical                                | Nominal Value                      | Unit              | Test Method |
| Tensile Modulus                           | 2300                               | MPa               | ISO 527-2   |
| Tensile Stress (Yield)                    | 25.0                               | MPa               | ISO 527-2   |
| Tensile Strain (Yield)                    | 4.0                                | %                 | ISO 527-2   |
| Flexural Modulus                          | 2400                               | MPa               | ISO 178     |
| Flexural Stress                           | 40.0                               | MPa               | ISO 178     |
| Impact                                    | Nominal Value                      | Unit              | Test Method |

| Charpy Notched Impact Strength                     |               |                   | ISO 179        |
|----------------------------------------------------|---------------|-------------------|----------------|
| -20°C                                              | 2.0           | kJ/m <sup>2</sup> |                |
| 23°C                                               | 4.0           | kJ/m <sup>2</sup> |                |
| Charpy Unnotched Impact Strength                   |               |                   | ISO 179        |
| -20°C                                              | 15            | kJ/m <sup>2</sup> |                |
| 23°C                                               | 35            | kJ/m <sup>2</sup> |                |
| Thermal                                            | Nominal Value | Unit              | Test Method    |
| Heat Deflection Temperature (0.45 MPa, Unannealed) | 110           | °C                | ISO 75-2/B     |
| Vicat Softening Temperature                        | 155           | °C                | ISO 306/B      |
| Melting Temperature (DSC)                          | 150           | °C                | ISO 3146       |
| Flammability                                       | Nominal Value | Unit              | Test Method    |
| Flame Rating                                       | HB            |                   | UL 94          |
| Glow Wire Ignition Temperature                     | 750           | °C                | IEC 60695-2-13 |
| Injection                                          | Nominal Value | Unit              |                |
| Processing (Melt) Temp                             | 200 to 250    | °C                |                |
| Mold Temperature                                   | 40.0 to 60.0  | °C                |                |
| Injection Pressure                                 | 70.0 to 120   | MPa               |                |

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