

# SLOVALEN® PH 91 T 40

Polypropylene

Plastcom

Message:

Modified homopolymer PP for injection moulding with the content of 40% microground, floated, chemically modified talc. General application in all industry branches - packing material, garden flower-pots, toys, furniture industry, dowels, clamps, hinge, office chairs, hangers, covers of car chassis, fenders, motors etc. Delivered in natural mode and in the full RAL colour scale.

| General Information                       |                           |                   |             |
|-------------------------------------------|---------------------------|-------------------|-------------|
| Filler / Reinforcement                    | Talc,40% Filler by Weight |                   |             |
| Features                                  | General Purpose           |                   |             |
|                                           | Homopolymer               |                   |             |
| Uses                                      | Furniture                 |                   |             |
|                                           | General Purpose           |                   |             |
|                                           | 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) | 22                        | g/10 min          | ISO 1133    |
| Molding Shrinkage                         |                           |                   | STM 64 0808 |
| Across Flow                               | 1.6                       | %                 |             |
| Flow                                      | 1.5                       | %                 |             |
| Mechanical                                | Nominal Value             | Unit              | Test Method |
| Tensile Modulus                           | 3200                      | MPa               | ISO 527-2   |
| Tensile Stress (Yield)                    | 30.0                      | MPa               | ISO 527-2   |
| Tensile Strain (Yield)                    | 3.0                       | %                 | ISO 527-2   |
| Flexural Modulus                          | 3100                      | MPa               | ISO 178     |
| Flexural Stress                           | 50.0                      | MPa               | ISO 178     |
| Impact                                    | Nominal Value             | Unit              | Test Method |
| Charpy Notched Impact Strength            |                           |                   | ISO 179     |
| -20°C                                     | 1.0                       | kJ/m <sup>2</sup> |             |
| 23°C                                      | 3.0                       | kJ/m <sup>2</sup> |             |

| Charpy Unnotched Impact Strength                   |               |                   | ISO 179     |
|----------------------------------------------------|---------------|-------------------|-------------|
| -20°C                                              | 12            | kJ/m <sup>2</sup> |             |
| 23°C                                               | 24            | kJ/m <sup>2</sup> |             |
| Thermal                                            | Nominal Value | Unit              | Test Method |
| Heat Deflection Temperature (0.45 MPa, Unannealed) | 67.0          | °C                | ISO 75-2/B  |
| Vicat Softening Temperature                        | 160           | °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 70.0  | °C                |             |
| Injection Pressure                                 | 70.0 to 120   | MPa               |             |

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### Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

