

# Petrotene® PP A3 T40 HS UV PRTA010 PH382

## MSP

Polypropylene Homopolymer

Petropol Industry and Trade of Polymers LTDA

### Message:

Polypropylene homopolymer with 40% mineral reinforced, term stabilized with UV protection . Resistant to oil, grease and many solvents, good set of mechanical properties and excellent dimensional stability. Ideal for injection molding.

| General Information                            |                              |                   |             |
|--|------------------------------|-------------------|-------------|
| Filler / Reinforcement                         | Mineral,40% Filler by Weight |                   |             |
| Additive                                       | UV Stabilizer                |                   |             |
| Features                                       | Good Dimensional Stability   |                   |             |
|  | Good UV Resistance           |                   |             |
|  | Grease Resistant             |                   |             |
|  | Homopolymer                  |                   |             |
|  | Oil Resistant                |                   |             |
|  | Solvent Resistant            |                   |             |
| Processing Method                              | Injection Molding            |                   |             |
| Resin ID (ISO 1043)                            | >PP MD40<                    |                   |             |
| Physical                                       | Nominal Value                | Unit              | Test Method |
| Specific Gravity                               | 1.23                         | g/cm <sup>3</sup> | ASTM D792   |
| Melt Mass-Flow Rate (MFR)                      | 5.0 to 12                    | g/10 min          | ASTM D1238  |
| Molding Shrinkage - Flow                       | 0.80 to 1.1                  | %                 | ASTM D955   |
| Water Absorption (Equilibrium)                 | 0.050                        | %                 | ASTM D570   |
| Ash Content                                    | 37 to 43                     | %                 | ASTM D2584  |
| Hardness                                       | Nominal Value                | Unit              | Test Method |
| Rockwell Hardness (R-Scale)                    | 90                           |                   | ASTM D785   |
| Mechanical                                     | Nominal Value                | Unit              | Test Method |
| Tensile Strength                               | 31.0                         | MPa               | ASTM D638   |
| Tensile Elongation (Break)                     | 3.0                          | %                 | ASTM D638   |
| Flexural Modulus                               | 2620                         | MPa               | ASTM D790   |
| Impact   | Nominal Value                | Unit              | Test Method |
| Notched Izod Impact                            | 21                           | J/m               | ASTM D256   |
| Thermal  | Nominal Value                | Unit              | Test Method |
| Deflection Temperature Under Load <sup>1</sup> |                              |                   | ASTM D648   |
| 0.45 MPa, Unannealed                           | 134                          | °C                |             |
| 1.8 MPa, Unannealed                            | 76.7                         | °C                |             |
| Vicat Softening Temperature                    |                              |                   |             |

|                        |                                    |      |                         |
|------------------------|------------------------------------|------|-------------------------|
| --                     | 98.0                               | °C   | ASTM D1525 <sup>2</sup> |
| --                     | 143                                | °C   | ASTM D1525 <sup>3</sup> |
| Flammability           | Nominal Value                      |      | Test Method             |
| Flame Rating           | HB                                 |      | UL 94                   |
| Injection              | Nominal Value                      | Unit |                         |
| Drying Temperature     | 80.0                               | °C   |                         |
| Drying Time            | 2.0                                | hr   |                         |
| Processing (Melt) Temp | 190 to 230                         | °C   |                         |
| Mold Temperature       | 60.0 to 80.0                       | °C   |                         |
| NOTE                   |                                    |      |                         |
| 1.                     | 2°C/min                            |      |                         |
| 2.                     | Rate A (50°C/h), Loading 2 (50 N)  |      |                         |
| 3.                     | Rate B (120°C/h), Loading 1 (10 N) |      |                         |

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

#### Recommended distributors for this material

### 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

