

# NILENE® P K30VA S

Polypropylene Homopolymer

Taro Plast S.p.A.

## Message:

Polypropylene homopolymer 30% glass fibres reinforced chemically coupled, heat stabilized, good mechanical properties, flame rating UL94 HB.

| General Information                       |                                                       |          |                 |
|-------------------------------------------|-------------------------------------------------------|----------|-----------------|
| UL YellowCard                             | E143048-100035156                                     |          |                 |
| Filler / Reinforcement                    | Glass fiber reinforced material, 30% filler by weight |          |                 |
| Additive                                  | heat stabilizer                                       |          |                 |
| Features                                  | Chemical coupling                                     |          |                 |
|                                           | Homopolymer                                           |          |                 |
|                                           | Thermal Stability                                     |          |                 |
|                                           |                                                       |          |                 |
| Processing Method                         | Injection molding                                     |          |                 |
| Physical                                  | Nominal Value                                         | Unit     | Test Method     |
| Density                                   | 1.12                                                  | g/cm³    | ISO 1183        |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) | 4.0                                                   | g/10 min | ISO 1133        |
| Molding Shrinkage                         |                                                       |          | Internal method |
| Vertical flow direction                   | 0.70 - 0.90                                           | %        | Internal method |
| Flow direction                            | 0.20 - 0.40                                           | %        | Internal method |
| Water Absorption (23°C, 24 hr)            | 0.20                                                  | %        | ISO 62          |
| Mechanical                                | Nominal Value                                         | Unit     | Test Method     |
| Tensile Modulus                           | 6200                                                  | MPa      | ISO 527-2/1     |
| Tensile Stress (Break)                    | 90.0                                                  | MPa      | ISO 527-2/50    |
| Tensile Strain (Break)                    | 3.5                                                   | %        | ISO 527-2/50    |
| Flexural Modulus <sup>1</sup>             | 5700                                                  | MPa      | ISO 178         |
| Flexural Stress <sup>2</sup>              | 125                                                   | MPa      | ISO 178         |
| Impact                                    | Nominal Value                                         | Unit     | Test Method     |
| Notched Izod Impact                       |                                                       |          | ASTM D256       |
| -20°C                                     | 70                                                    | J/m      | ASTM D256       |
| 23°C                                      | 100                                                   | J/m      | ASTM D256       |
| Thermal                                   | Nominal Value                                         | Unit     | Test Method     |
| Heat Deflection Temperature               |                                                       |          |                 |
| 0.45 MPa, not annealed                    | 155                                                   | °C       | ISO 75-2/B      |
| 1.8 MPa, not annealed                     | 142                                                   | °C       | ISO 75-2/A      |
| Vicat Softening Temperature               |                                                       |          |                 |
| --                                        | 155                                                   | °C       | ISO 306/A50     |
| --                                        | 133                                                   | °C       | ISO 306/B50     |

| Ball Pressure Test (125°C)                          | Pass          |        | IEC 60695-10-2 |
|-----------------------------------------------------|---------------|--------|----------------|
| Flammability                                        | Nominal Value | Unit   | Test Method    |
| Burning Rate <sup>3</sup> (2.00 mm)                 | < 100         | mm/min | ISO 3795       |
| Flame Rating                                        |               |        | UL 94          |
| 0.750 mm                                            | HB            |        | UL 94          |
| 1.50 mm                                             | HB            |        | UL 94          |
| Oxygen Index                                        | 20            | %      | ASTM D2863     |
| Additional Information                              | Nominal Value | Unit   | Test Method    |
| Reinforcement Content                               | 30            | %      | ISO 3451       |
| Injection                                           | Nominal Value | Unit   |                |
| Processing (Melt) Temp                              | 220 - 250     | °C     |                |
| Mold Temperature                                    | 50.0 - 70.0   | °C     |                |
| Injection Rate                                      | Moderate      |        |                |
| Injection instructions                              |               |        |                |
| Pre-heat Temperature: 70 to 80°CPre-heat Time: 1 hr |               |        |                |
| NOTE                                                |               |        |                |
| 1.                                                  | 1.0 mm/min    |        |                |
| 2.                                                  | 1.0 mm/min    |        |                |
| 3.                                                  | US FMVSS302   |        |                |

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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



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