

### التصنيع TASNEE

## TALENE M4003 N01 Polypropylene Compound

#### DESCRIPTION

**TALENE M4003 N01** is a 40% talc filled polypropylene homopolymer with good processability and high stiffness. It has good thermal aging resistance. The product is available in natural color.

It is not intended for medical, pharmaceutical and/or drinking water applications.

#### TYPICAL APPLICATIONS

The product is intended for injection and extrusion processes.

#### TYPICAL PROPERTIES

| Physical                               | Method        | Unit              | Value |
|----------------------------------------|---------------|-------------------|-------|
| Density                                | ISO 1183      | g/cm <sup>3</sup> | 1.25  |
| Melt Flow Rate (230°C/2.16 kg)         | ISO 1133      | g/10 min          | 3.5   |
| Heat Distortion Temperature @ 0.45 MPa | ISO 75 -2     | °C                | 125   |
| Heat Distortion Temperature @ 1.80 MPa | ISO 75 -2     | °C                | 100   |
| Vicat Softening Temperature (10 N)     | ISO 306       | °C                | 155   |
| Mechanical                             | Method        | Unit              | Value |
| Tensile Modulus (23°C)                 | ISO 527-1, -2 | MPa               | 2400  |
| Tensile Stress at Yield (23°C)         | ISO 527-1, -2 | MPa               | 32    |
| Tensile Strain at Yield (23°C)         | ISO 527-1, -2 | %                 | 2.5   |
| Flexural Modulus (23°C)                | ISO 178       | MPa               | 3500  |
| Charpy Notched Impact strength, (23°C) | ISO 179       | kJ/m <sup>2</sup> | 2.5   |

Note: The above properties values are not to be construed as specifications.



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#### Safety

Workers should be protected from the possibility of skin or eye contact with molten polymer. As minimum precaution, safety glasses and heat resistance gloves are suggested to prevent mechanical or thermal injury to eyes and hands. Molten polymer exceeding processing condition requirements may degrade and release, fumes, vapors and unpleasant odor. In higher concentrations they may cause irritation of the mucus membranes. Fabrication areas should be ventilated to carry away fumes and vapors. Legislation on the control of emissions and pollution prevention must be observed. If the principles of sound manufacturing practice are adhered to and the place of work is well ventilated, no health hazards are involved in processing the material.

The material may burn when supplied with excess heat and oxygen. It should be handled and stored away from contact with direct flames and/or ignition sources. In burning the material generates considerable heat and may release a dense black smoke. Fires should be extinguished by heavy foams or dry powder. For further information about safety in handling and processing please refer to the Safety Data Sheet (SDS).

#### Storage

The material is packed in 25 kg bags or in bulk containers protecting it from contamination. Storage time of material longer than 6 months may have a negative influence on the quality of the final product. It is generally recommended to convert all materials latest within 6 months from delivery date. The material is subjected to degradation by ultra-violet radiation or by high storage temperatures. Therefore, the material must be protected from direct sunlight, temperatures above 40°C and high atmospheric humidity during storage. Further unfavorable storage conditions are large fluctuations in ambient temperature and high atmospheric humidity. **TASNEE** will not give any warranty to unfavorable storage conditions which may lead to quality deterioration such as color change, bad smell and inferior product performance.

#### Disclaimer

"The information and data contained in this publication is submitted without prejudice, and is based on our current knowledge, experience and on a limited number of tests". "In view of the many factors that may affect processing and application, these data do not relieve the receiver of this information from the responsibility of carrying out their own tests and experiments; neither do they imply any legally binding assurance of certain properties nor of suitability for a specific purpose of the products made with or on the basis of the information in this publication".

