

Technical Data Sheet

Typical Applications

- Used for the production of house wares, toys, small appliance parts and components for automotive industry
- Used for Raffia and automotive compounding

Key Characteristics

- Good processability, Good Stiffness
- Bi-Modal grade, broad MWD
- Food contact approval for specific applications (refer to *NATPET*)

Processing Methods

- Extrusion and Co-Extrusion
- Injection Molding

| Resin | Conditions | Method | Value | Unit |
|-----------------------------|----------------------|----------------|-------|-------------------|
| Density | 23 °C | ISO 1183 | 0.900 | g/cm ³ |
| Melt Flow Rate (MFR) | 230 °C/2.16 kg | ASTM D 1238-13 | 3.2 | g/10-min |
| Mechanical | | | | |
| Flexural Modulus | | ISO 178 | 1,470 | MPa |
| Tensile Stress at Break | 50-mm/min | ISO 527 | 23 | MPa |
| Tensile Stress at Yield | 50-mm/min | ISO 527 | 34 | MPa |
| Tensile Strain at Break | 50-mm/min | ISO 527 | > 50 | % |
| Tensile Strain at Yield | 50-mm/min | ISO 527 | 12 | % |
| Izod <small>Notched</small> | 23 °C | ISO 180 | 5.1 | kJ/m ² |
| Thermal | | | | |
| Heat Deflection Temperature | 0.45 MPa Un-annealed | ISO 75B | 85 | °C |
| Vicat Softening Temperature | A50 (50 °C/h 10N) | ISO 306 | 154 | °C |
| Additional | | | | |
| Tensile Modulus | 1-mm/min | ISO 527 | 1,500 | MPa |

Note: The above are typical data representing the product; not to be construed as analysis certificate or specifications.

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Special Features

- Raffia
 - Tested on Starlinger machine Starex 1500ES
 - Recommended for high speed Raffia machines
- Shows broad processing window while providing good mechanical properties
- Tested for VDA 270 compliance (refer RCPD)

Processing Conditions

Average extruder temperature range may be kept between 240 – 260 °C.

Food Regulation

This product is defined as a preparation under specific food contact regulation. Detailed information will be provided in a relevant document “Regulatory Compliances Product Declaration” upon request.

Storage and Handling

Polypropylene resin should be stored to prevent a direct exposure to sunlight and heat. The Product estimated shelf life is one year starting from production date, adequate humidity below 80%, and temperature below 40 °C. Customers might not fully follow the optimal storage condition, hence the shelf life recommended at customer site is six months only as received. Please refer to “Material Safety Datasheet” (MSDS) for handling and storage information.

Documents

Specific documents MSDS and RCPD are available on request. Please send your request to the following e-mail: pa@natpet.com or visit our website : WWW.natpet.com