



**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 <sup>3</sup>
Melt Flow Rate (MFR)	230°C/2.16 kg	ASTM D 1238-13	3.2	g/10-min
<b>Mechanical</b>				
Flexural Modulus		ISO 178	1,470	MPa
Tensile Modulus	1-mm/min	ISO 527	1,500	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 <i>Notched</i>	23°C	ISO 180	5.1	kJ/m <sup>2</sup>
<b>Thermal</b>				
Heat Deflection Temperature	0.45 MPa Un-annealed	ISO 75B	85	°C
Vicat Softening Temperature	A50 (50°C/h 10N)	ISO 306	154	°C

Technical information

**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

#### 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

Legal documents, MSDS, trial reports and machine builder certificate are available on request. Please send your request to the following e-mail: [pa@natpet.com](mailto:pa@natpet.com)