

## Technical Data Sheet

### Typical Applications

- BOPP films produced at very high speed with excellent processability
- Used for metallizable film, both as monolayer and in co-extruded structure
- Engaged for the production of solid phase thermoforming
- Suitable for raffia application

### Key Characteristics

- Easy processing, good optical characteristics
- Does not contain any slip or anti-blocking agents
- Calcium stearate free
- Very good film profile
- High speed film production
- High transparency and gloss with high stiffness and strength
- Food contact approval for specific applications (refer to *NATPET*)

### Processing Methods

- Extrusion and Co-Extrusion
- Thermoforming

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	3.0	g/10-min
<b>Mechanical</b>				
Flexural Modulus		ISO 178	1,400	MPa
Tensile Stress at Break	50-mm/min	ISO 527	23	MPa
Tensile Stress at Yield	50-mm/min	ISO 527	33	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	6.2	kJ/m <sup>2</sup>
<b>Thermal</b>				
Heat Deflection Temperature	0.45 MPa Un-annealed	ISO 75B	94	°C
Vicat Softening Temperature	A50 (50 °C/h 10N)	ISO 306	155	°C
<b>Optical</b>				
Haze	20µm	ASTM D 1003	0.8	%
<b>Additional</b>				
Tensile Modulus	1-mm/min	ISO 527	1,500	MPa

Technical information

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

DS v3.1

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*NATPET* would like to advise its customers and other users that unless specifically stated the supplied products should not be used for applications in medical and/or pharmaceutical sectors.

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### Special Features

- Biaxially oriented polypropylene (BOPP)
  - Tested on Brückner Maschinebau GmbH BOPP machine
  - Reached 0.8% haze
  - Recommended for high speed BOPP machines
- 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 and RCPD are available on request. Please send your request to the following e-mail: [pa@natpet.com](mailto:pa@natpet.com) or visit our website : [WWW.natpet.com](http://WWW.natpet.com)