



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 ³
Melt Flow Rate (MFR)	230°C/2.16 kg	ASTM D 1238-13	3.0	g/10-min
Mechanical				
Flexural Modulus		ISO 178	1,400	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	33	MPa
Tensile Strain at Break	50-mm/min	ISO 527	> 50	%
Tensile Strain at Yield	50-mm/min	ISO 527	12	%
Izod Notched	23°C	ISO 180	6.2	kJ/m ²
Thermal				
Heat Deflection Temperature	0.45 MPa Un-annealed	ISO 75B	94	°C
Vicat Softening Temperature	A50 (50°C/h 10N)	ISO 306	155	°C
Optical				
Haze	20µm	ASTM D 1003	0.8	%

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

- **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, trial reports and machine builder certificate are available on request. Please send your request to the following e-mail: pa@natpet.com