### Typical Applications
- BOPP films produced at very high speed for packaging
- Used for metallizable film, both as monolayer and in co-extruded structure
- Engaged for the production of solid phase thermoforming
- Suitable for raffia application and automotive compounding

### Key Characteristics
- Easy processing, good optical characteristics
- Does not contain any slip or anti-blocking agents
- Calcium stearate free
- Low water carry-over (LWCO)
- Very good film profile
- Food contact approval for specific applications (refer to NATPET)

### Processing Methods
- Extrusion and Co-Extrusion
- Thermoforming

### Resin Conditions

<table>
<thead>
<tr>
<th>Resin</th>
<th>Conditions</th>
<th>Method</th>
<th>Value</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Density</td>
<td>23°C</td>
<td>ISO 1183</td>
<td>0.900</td>
<td>g/cm³</td>
</tr>
<tr>
<td>Melt Flow Rate (MFR)</td>
<td>230°C/2.16 kg</td>
<td>ASTM D 1238-13</td>
<td>3.0</td>
<td>g/10-min</td>
</tr>
</tbody>
</table>

#### Mechanical
- Flexural Modulus: ISO 178, 1,500 MPa
- Tensile Modulus: ISO 527, 1,450 MPa
- Tensile Stress at Break: ISO 527, 23 MPa
- Tensile Stress at Yield: ISO 527, 35 MPa
- Tensile Strain at Break: ISO 527, > 50 %
- Tensile Strain at Yield: ISO 527, 12 %

#### Thermal
- Heat Deflection Temperature: 0.45 MPa Un-annealed, ISO 75B, 85 °C
- Vicat Softening Temperature: A50 (50°C/h 10N), ISO 306, 156 °C

#### Optical
- Haze: 20µm, ASTM D 1003, 0.7 %

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

For further details about NATPET and its products, please visit the website at [www.natpet.com](http://www.natpet.com)

NATPET® products, marketed under the trade name Teldene®, are intended for the use by those customers and/or any other consumers, who undertake to become responsible to independently establish on their own the appropriateness of the product for its intended use, covering all safety and legally enacted requirements at the location of its projected use and the legal disposal practices thereof. The description of the product as given in this sheet shall under no circumstances be construed as warranty, express or implied including a warranty of merchantable fitness for a particular purpose. On behalf of NATPET, no one is authorized to make any such warranties, or take up on their own to assume such a liability. In case of product related claims, the sole and maximum remedy will be the physical substitution of the product or reimbursement of the purchase value, as per NATPET’s options. Further claims based on consequential, secondary, contingent, or extraordinary damages will in no way entertained by NATPET.

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.
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

For further details about NATPET and its products, please visit the website at www.natpet.com

NATPET® products, marketed under the trade name Teldene®, are intended for the use by those customers and/or any other consumers, who undertake to become responsible to independently establish on their own the appropriateness of the product for its intended use, covering all safety and legally enacted requirements at the location of its projected use and the legal disposal practices thereof. The description of the product as given in this sheet shall under no circumstances be construed as warranty, express or implied including a warranty of merchantability for a particular purpose. On behalf of NATPET, no one is authorized to make any such warranties, or take up on their own to assume such a liability. In case of product related claims, the sole and maximum remedy will be the physical substitution of the product or reimbursement of the purchase value, as per NATPET’S options. Further claims based on consequential, secondary, contingent, or extraordinary damages will in no way entertained by NATPET.

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.