Technical Data Sheet _

Typical Applications

- BOPP films produced at 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

| Property | Conditions | Method | Value | Unit |
|-----------------------------|----------------------|----------------|-------|----------|
| Density | 23°C | ISO 1183 | 0.900 | g/cm³ |
| Melt Flow Rate (MFR) | 230°C/2.16 kg | ASTM D 1238-13 | 3.0 | g/10-min |
| Mechanical | | | | |
| Flexural Modulus | | ISO 178 | 1,500 | MPa |
| Tensile Stress at Break | 50-mm/min | ISO 527 | 23 | MPa |
| Tensile Stress at Yield | 50-mm/min | ISO 527 | 35 | 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 | 5.9 | kJ/m² |
| 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 | % |
| Additional | | | | |
| Tensile Modulus | 1-mm/min | ISO 527 | 1,450 | MPa |

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

DS v3.1

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



POLYPROPYLENE HOMOPOLYMER

Technical Data Sheet

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
- 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