

Technical Data Sheet

Typical Applications

- Transparent cast film
- Used for shopping bags production
- Engaged for packing film of snacks, pasta, bakery items, books, blankets, hosiery, shirts, lamination, automotive compounding, etc.

Key Characteristics

- High transparency
- High gloss and good printability after corona treatment
- No slip or anti-blocking agents
- Metallizable, calcium stearate free
- Food contact approval for specific applications (refer to **NATPET**)

Processing Methods

- Extrusion and Co-Extrusion

| 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 | 8 | g/10-min |
| Mechanical | | | | |
| 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 | 650 | % |
| Tensile Strain at Yield | 50-mm/min | ISO 527 | 13 | % |
| Izod <i>Notched</i> | 23°C | ISO 180 | 4.6 | kJ/m ² |
| Thermal | | | | |
| Heat Deflection Temperature | 0.45 MPa Un-annealed | ISO 75B | 90 | °C |
| Vicat Softening Temperature | A50 (50°C/h 10N) | ISO 306 | 154 | °C |
| Optical | | | | |
| Haze | 100µm | ASTM D 1003 | < 1 | % |
| Gloss | 45°; 100µm | ASTM D 2457 | 87.9 | % |

Technical information

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

DS v3.0

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

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Special Features

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