

## 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 <sup>3</sup>
Melt Flow Rate (MFR)	230°C/2.16 kg	ASTM D 1238-13	8	g/10-min
<b>Mechanical</b>				
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 <small>Notched</small>	23°C	ISO 180	4.6	kJ/m <sup>2</sup>
<b>Thermal</b>				
Heat Deflection Temperature	0.45 MPa Un-annealed	ISO 75B	90	°C
Vicat Softening Temperature	A50 (50°C/h 10N)	ISO 306	154	°C
<b>Optical</b>				
Haze	100µm	ASTM D 1003	< 1	%
Gloss	45°; 100µm	ASTM D 2457	87.9	%
<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

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

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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**

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)