

## Technical Data Sheet

### Typical Applications

- Suitable for high clarity injection molding and Injection-Stretch Blow Molding (ISBM) applications
- Used for the production of housewares and cosmetic packaging, TWIM articles for food and non-food applications, CD cases and caps & closures and component parts for automotive industry

### Key Characteristics

- Organoleptically suitable for food contact
- Nucleated random copolymer, contains anti-static agent
- Excellent processability and flow-ability
- Excellent transparency and dimensional stability
- Good impact resistance
- Potential for energy and cycle time saving
- Reactor grade, no per-oxide added
- Food contact approval for specific applications (*refer to NATPET*)

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	40	g/10-min
<b>Mechanical</b>				
Flexural Modulus		ISO 178	1,100	MPa
Tensile Stress at Yield	50-mm/min	ISO 527	29	MPa
Tensile Strain at Break	50-mm/min	ISO 527	> 50	%
Tensile Strain at Yield	50-mm/min	ISO 527	12	%
<b>Thermal</b>				
Heat Deflection Temperature	0.45 MPa Un-annealed	ISO 75B	73	°C
Vicat Softening Temperature	A50 (50 °C/h 10N)	ISO 306	125	°C
<b>Additional</b>				
Tensile Modulus	1-mm/min	ISO 527	1,000	MPa
Izod <small>Notched</small>	23 °C	ISO 180	5.4	kJ/m <sup>2</sup>
Haze	1.0 mm	ASTM D 1003	6.0	%

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

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### Special Features

- Amazing result on transparent articles
- Shows broad processing window while providing excellent clarity at low molding temperature
- Energy saving
- Tested for VDA 270 compliance (refer RCPD)

### Processing Conditions

Average extruder temperature range may be kept between 190 – 210°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](mailto:pa@natpet.com) or visit our website : [WWW.natpet.com](http://WWW.natpet.com)