

## Technical Data Sheet

### Typical Applications

- Thin-wall Injection molding (TWIM) applications
- Good for thin-walled containers for food packaging (margarine, yoghurt, etc.), sport goods, leisure goods, housewares, caps with hinge

### Key Characteristics

- Phthalate free heterophasic copolymer containing anti-static agent
- Excellent isotropic shrinkage control
- Exhibits outstanding balance of mechanical properties with medium to high fluidity
- Food contact approval for specific applications (refer to **NATPET**).

Resin	Conditions	Method	Value	Unit
Density	23°C	ISO 1183	0.905	g/cm <sup>3</sup>
Melt Flow Rate (MFR)	230°C/2.16 kg	ASTM D 1238-13	44	g/10-min
<b>Mechanical</b>				
Flexural Modulus		ISO 178	1,500	MPa
Tensile Stress at Yield	50-mm/min	ISO 527	28	MPa
Tensile Strain at Break	50-mm/min	ISO 527	> 30	%
Tensile Strain at Yield	50-mm/min	ISO 527	5	%
	23 °C, Type 1, Edgewise	ISO 179	110	
Charpy <sub>un-notched</sub>	0 °C, Type 1, Edgewise	ISO 179	100	KJ/m <sup>2</sup>
	-20 °C, Type1, Edgewise	ISO 179	85	KJ/m <sup>2</sup>
	23 °C, Type 1, Edgewise	ISO 179	5.0	KJ/m <sup>2</sup>
Charpy <sub>Notched</sub>	0 °C, Type 1, Edgewise	ISO 179	3.5	KJ/m <sup>2</sup>
	-20 °C, Type 1, Edgewise	ISO 179	3.0	KJ/m <sup>2</sup>
<b>Thermal</b>				
Heat Deflection Temperature	0.45 MPa Un-annealed	ISO 75B	112	°C
Vicat Softening Temperature	A50 (50°C/h 10N)	ISO 306	151	°C
<b>Additional</b>				
Tensile Modulus	1-mm/min	ISO 527	1,450	MPa
Izod <sub>Notched</sub>	23°C	ISO 180	5.0	kJ/m <sup>2</sup>

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

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### Special Features

- Excellent Performance for TWIM application
- Broad processing window, improved fluidity at optimized molding temperatures

### Processing Conditions

Average extruder temperature range may be kept between 220 - 240°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)