

Technical Data Sheet

Typical Applications

- Suitable for thin walled injection molding (TWIM) applications
- Used for the production of house wares, thin walled articles for food and non-food applications, video cassette cases, caps and lids, sports, leisure & toys and component parts for automotive industry

Key Characteristics

- Organoleptically suitable for food contact
- Excellent transparency and dimensional stability
- Nucleated & Anti-static additivated random copolymer
- Potential for energy and cycle time saving
- Suitable for defined medical/pharma-packing applications, **subject to NATPET approval**
- Food contact approval for specific applications (*refer to NATPET*)

Processing Methods

- Injection Molding, TWIM

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	25	g/10-min
Mechanical				
Flexural Modulus		ISO 178	1,200	MPa
Tensile Modulus	1-mm/min	ISO 527	1150	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	11	%
Charpy <i>un-notched</i>	23 °C, Type 1, Edgewise	ISO 179	200	kJ/m ²
	0 °C, Type 1, Edgewise	ISO 179	70	kJ/m ²
Charpy <i>notched</i>	23 °C, Type 1, Edgewise	ISO 179	6	kJ/m ²
	0 °C, Type 1, Edgewise	ISO 179	3	kJ/m ²
Izod <i>Notched</i>	23°C	ISO 180	5.4	kJ/m ²
Thermal				
Heat Deflection Temperature	0.45 MPa Un-annealed	ISO 75B	76	°C
Vicat Softening Temperature	A50 (50°C/h 10N)	ISO 306	130	°C
Optical				
Haze	1.0 mm	ASTM D 1003	6.0	%

Technical information

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

DS v3.0

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Special Features

- Amazing result on transparent articles
- Shows broad processing window while providing excellent clarity at low molding temperature

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

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