

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 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
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
Additional				
Tensile Modulus	1-mm/min	ISO 527	1150	MPa
Izod <i>Notched</i>	23 °C	ISO 180	5.4	kJ/m ²
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 v4.1

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

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Special Features

- Amazing result on transparent articles
- Shows broad processing window while providing excellent clarity at low molding temperature
- Tested for biocompatibility, ISO 10993-4,5,10,11 (refer RCPD)
- 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

Legal documents MSDS and RCPD are available on request. Please send your request to the following e-mail: pa@natpet.com or visit our website : WWW.natpet.com