

Technical Data Sheet

Typical Applications

- Thermoformed packaging articles
- In-line and off-line thermoforming
- Used for the production of fruit baskets, trays, transparent drinking cups and containers

Key Characteristics

- Nucleated homopolymer, contains anti-static agent
- Excellent transparency and processability
- Excellent stiffness and dimensional stability
- Excellent isotropic shrinkage control
- Excellent for deep thermoforming application
- Good organoleptic properties
- Food contact approval for specific applications (refer to **NATPET**)

Processing Methods

- Thermoforming
- Sheet extrusion

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	3.1	g/10-min
Mechanical				
Flexural Modulus		ISO 178	1,720	MPa
Tensile Modulus	1-mm/min	ISO 527	1,600	MPa
Tensile Stress at Break	50-mm/min	ISO 527	27	MPa
Tensile Stress at Yield	50-mm/min	ISO 527	37	MPa
Tensile Strain at Break	50-mm/min	ISO 527	> 50	%
Tensile Strain at Yield	50-mm/min	ISO 527	9	%
Izod <i>Notched</i>	23°C	ISO 180	5.1	kJ/m ²
Thermal				
Heat Deflection Temperature	0.45 MPa Un-annealed	ISO 75B	90	°C
Vicat Softening Temperature	A50 (50°C/h 10N)	ISO 306	155	°C

Technical information

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



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Special Features

- **Thermoforming**
 - Tested on Amut S.p.A machine AMP630 and performed well
- Shows broad processing window while providing good mechanical properties

Processing Conditions

Average extruder temperature range may be kept between 230 - 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

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