



Teldene® H03TF

Lyondellbasell licensed Spheripol Process

POLYPROPYLENE HOMOPOLYMER

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 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 Notched	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
Additional				
Tensile Modulus	1-mm/min	ISO 527	1,600	MPa

Technical information

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

DS v3.1

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

NATPET® products, marketed under the trade name Teldene®, are intended for the use by those customers and/or any other consumers, who undertake to become responsible to independently establish on their own the appropriateness of the product for its intended use, covering all safety and legally enacted requirements at the location of its projected use and the legal disposal practices thereof. The description of the product as given in this sheet shall under no circumstances be construed as warranty, express or implied including a warranty of merchandise fitness for a particular purpose. On behalf of NATPET, no one is authorized to make any such warranties, or take up on their own to assume such a liability. In case of product related claims, the sole and maximum remedy will be the physical substitution of the product or reimbursement of the purchase value, as per NATPET's options. Further claims based on consequential, secondary, castigatory, or extraordinary damages will in no way entertained by NATPET.

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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

Specific 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

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