Homopolymer

TELDENE H03TF TDS

LyondellBasell Licensed Spheripol Process

NATPET

Typical Applications

- Extrusion and thermoforming applications
- Used for the production of fruit baskets, trays, transparent drinking cups and containers

Key Characteristics

- Nucleated Homopolymer
- Excellent Transparency and Processability
- Excellent Stiffness and dimensional stability
- Excellent isotropic shrinkage control
- Excellent for deep thermoforming application
- Food contact approval for specific applications (refer to *NATPET*)

Processing Methods

- Sheet Extrusion
- Thermoforming

Qualitative

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 1238-10	*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	ASTM D 256	*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	*154*	°C
Additional				
Tensile Modulus	1-mm/min	ISO 527	*1,600*	MPa

Note

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

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

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NATPET would like to advise its customers and other users that unless specifically stated the supplied products should not be used for applications in medical and/or pharmaceutical sectors.

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Special Features

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

Processing Conditions

Average injection 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” on request.

Storage and Handling

Polypropylene resin should be stored to prevent a direct exposure to sunlight and heat. 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: technicalsupport@natpetpp.com

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