



Teldene® B45ML Lyondellbasell licensed Spheripol Process

POLYPROPYLENE HETEROPHASIC COPOLYMER

Technical Data Sheet

Typical Applications

- Thin-wall Injection molding (TWIM) applications
- Good for thin-walled containers for food packaging (margarine, yoghurt, etc.), sport goods, leisure goods, housewares, caps with hinge

Key Characteristics

- Nucleated heterophasic copolymer containing anti-static agent
- Exhibits outstanding balance of mechanical properties with medium to high fluidity
- Excellent isotropic shrinkage control
- Food contact approval for specific applications (refer to **NATPET**).

Resin	Conditions	Method	Value	Unit
Density	23 °C	ISO 1183	0.905	g/cm ³
Melt Flow Rate (MFR)	230 °C/2.16 kg	ASTM D 1238-13	44	g/10-min
Mechanical				
Flexural Modulus		ISO 178	1,500	MPa
Tensile Stress at Yield	50-mm/min	ISO 527	28	MPa
Tensile Strain at Break	50-mm/min	ISO 527	> 30	%
Tensile Strain at Yield	50-mm/min	ISO 527	5	%
Charpy _{un-notched}	23 °C, Type 1, Edgewise	ISO 179	110	
	0 °C, Type 1, Edgewise	ISO 179	100	KJ/m ²
	-20 °C, Type1, Edgewise	ISO 179	85	KJ/m ²
Charpy _{Notched}	23 °C, Type 1, Edgewise	ISO 179	5.0	KJ/m ²
	0 °C, Type 1, Edgewise	ISO 179	3.5	KJ/m ²
	-20 °C, Type 1, Edgewise	ISO 179	3.0	KJ/m ²
Thermal				
Heat Deflection Temperature	0.45 MPa Un-annealed	ISO 75B	112	°C
Vicat Softening Temperature	A50 (50 °C/h 10N)	ISO 306	151	°C
Additional				
Tensile Modulus	1-mm/min	ISO 527	1,450	MPa
Izod _{Notched}	23 °C	ISO 180	5.0	kJ/m ²

Technical information

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

DS v3.0

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

- Excellent Performance for TWIM application
- Broad processing window, improved fluidity at optimized molding temperatures

Processing Conditions

Average extruder temperature range may be kept between 220 - 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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