Teldene® R40MLT LyondellBasell licensed Spheripol Process

POLYPROPYLENE RANDOM COPOLYMER

NATPET

Technical Data Sheet

Typical Applications

- Suitable for high clarity injection molding and Injection-Stretch Blow Molding (ISBM) applications
- Used for the production of housewares and cosmetic packaging, TWIM articles for food and non-food applications, CD cases and caps & closures and component parts for automotive industry

Key Characteristics

- Organoleptically suitable for food contact
- Nucleated random copolymer, contains anti-static agent
- Excellent processability and flow-ability
- Excellent transparency and dimensional stability
- Good impact resistance
- Potential for energy and cycle time saving
- Reactor grade, no per-oxide added
- Suitable for defined medical/Pharam-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	*40*	g/10-min
Mechanical				
Flexural Modulus		ISO 178	*1,100*	MPa
Tensile Modulus	1-mm/min	ISO 527	*1,000*	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	*12*	%
Izod $_{Notched}$	23°C	ISO 180	*5.4*	kJ/m^2
Thermal				
Heat Deflection Temperature	0.45 MPa Un-annealed	ISO 75B	*73*	°C
Vicat Softening Temperature	A50 (50°C/h 10N)	ISO 306	*125*	°C
Optical				
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.

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 merchandize 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.
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

- Amazing result on transparent articles
- Shows broad processing window while providing excellent clarity at low molding temperature
- Energy saving

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, trial reports and machine builder certificate are available on request. Please send your request to the following e-mail: pa@natpet.com

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