

# Teldene® R25MLT

LyondellBasell licensed Spheripol Process

## POLYPROPYLENE RANDOM COPOLYMER



### Technical Data Sheet

#### Typical Applications

- Suitable for thin walled injection molding (TWIM) applications
- Used for the production of house wares, thin walled articles for food and non-food applications, video cassette cases, caps and lids, sports, leisure & toys and component parts for automotive industry

#### Key Characteristics

- Organoleptically suitable for food contact
- Excellent transparency and dimensional stability
- Nucleated & Anti-static additivated random copolymer
- Potential for energy and cycle time saving
- Suitable for defined medical/pharma-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 <sup>3</sup> |
| Melt Flow Rate (MFR)        | 230°C/2.16 kg           | ASTM D 1238-13 | 25    | g/10-min          |
| <b>Mechanical</b>           |                         |                |       |                   |
| Flexural Modulus            |                         | ISO 178        | 1,200 | MPa               |
| Tensile Modulus             | 1-mm/min                | ISO 527        | 1150  | 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        | 11    | %                 |
| Charpy <i>un-notched</i>    | 23 °C, Type 1, Edgewise | ISO 179        | 200   | kJ/m <sup>2</sup> |
|                             | 0 °C, Type 1, Edgewise  | ISO 179        | 70    | kJ/m <sup>2</sup> |
| Charpy <i>notched</i>       | 23 °C, Type 1, Edgewise | ISO 179        | 6     | kJ/m <sup>2</sup> |
|                             | 0 °C, Type 1, Edgewise  | ISO 179        | 3     | kJ/m <sup>2</sup> |
| Izod <i>Notched</i>         | 23°C                    | ISO 180        | 5.4   | kJ/m <sup>2</sup> |
| <b>Thermal</b>              |                         |                |       |                   |
| Heat Deflection Temperature | 0.45 MPa Un-annealed    | ISO 75B        | 76    | °C                |
| Vicat Softening Temperature | A50 (50°C/h 10N)        | ISO 306        | 130   | °C                |
| <b>Optical</b>              |                         |                |       |                   |
| 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.

DS v3.0

For further details about **NATPET** and its products, please visit the website at [www.natpet.com](http://www.natpet.com)

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**Special Features**

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

**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](mailto:pa@natpet.com)

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