

Homopolymer

# TELDENE

LyondellBasell Licensed Spheripol Process

# H03ML

TDS



## Typical Applications

- Used for the production of house wares, toys, small appliance parts, and components for automotive industry
- Used for Raffia

## Key Characteristics

- Good processability
- Good Stiffness
- Bi-modal grade with broad MWD
- Food contact approval for specific applications (refer to NATPET)

## Processing Methods

- Extrusion & Co-Extrusion
- Injection Molding

## Qualitative

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 1238-10	3.2	g/10-min
<b>Mechanical</b>				
Flexural Modulus		ISO 178	1,470	MPa
Tensile Stress at Break	50-mm/min	ISO 527	23	MPa
Tensile Stress at Yield	50-mm/min	ISO 527	34	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	ASTM D 256	5.1	kJ/m <sup>2</sup>
<b>Thermal</b>				
Heat Deflection Temperature	0.45 MPa Un-annealed	ISO 75B	85	°C
Vicat Softening Temperature	A50 (50°C/h 10N)	ISO 306	154	°C
<b>Additional</b>				
Tensile Modulus	1-mm/min	ISO 527	1,500	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](http://www.natpetpp.com)

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### Special Features

- Raffia
  - Tested on Starlinger machine Starex 1500ES
  - Recommended for high speed Raffia machines
- Shows broad processing window while providing good mechanical properties

### Processing Conditions

Average extruder temperature range may be kept between 240 - 260°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](mailto:technicalsupport@natpetpp.com)

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