

Heterophasic Copolymer

TELDENE

LyondellBasell Licensed Spheripol Process

B07ML

TDS



Typical Applications

- Used for the production of injection molding products requiring a good resistance to long term heat exposure, especially for battery cases, automotive components and large containers
- Compounding applications

Key Characteristics

- Medium fluidity
- Good balance of impact and stiffness
- Low warpage tendency
- Good heat aging resistance
- Good dimensional stability
- Formulated with a highly effective heat stabilization package
- Food contact approval for specific applications (refer to *NATPET*)

Processing Method

- Injection Molding

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	7.0	g/10-min
Mechanical				
Flexural Modulus		ISO 178	1,110	MPa
Tensile Stress at Yield	50-mm/min	ISO 527	27	MPa
Tensile Strain at Break	50-mm/min	ISO 527	> 50	%
Tensile Strain at Yield	50-mm/min	ISO 527	7	%
Charpy Un-notched	23 °C, Type 1, Edgewise	ISO 179	No Break	kJ/m ²
	0 °C, Type 1, Edgewise	ISO 179	140	kJ/m ²
	-20 °C, Type 1, Edgewise	ISO 179	80	kJ/m ²
Charpy Notched	23 °C, Type 1, Edgewise	ISO 179	7.5	kJ/m ²
	0 °C, Type 1, Edgewise	ISO 179	4.5	kJ/m ²
Charpy Notched	-20 °C, Type 1, Edgewise	ISO 179	3.5	kJ/m ²
	Thermal			
Heat Deflection Temperature	0.45 MPa Un-annealed	ISO 75B	70	°C
Vicat Softening Temperature	A50 (50°C/h 10N)	ISO 306	148	°C
Additional				
Tensile Modulus	1-mm/min	ISO 527	1,200	MPa
Izod Notched	23°C	ASTM D 256	8.3	kJ/m ²

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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Special Features

- Amazing result on battery cases articles
- Broad processing window, excellent flowability at optimized molding temperatures

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 and MSDS are available on request. Please send your request to the following e-mail:

technicalsupport@natpetpp.com

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