

**Technical Data Sheet**

**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
- Automotive 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*)

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	7	g/10-min
<b>Mechanical</b>				
Flexural Modulus		ISO 178	1,100	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 <sub>un-notched</sub>	23 °C, Type 1, Edgewise	ISO 179	No Break	
	0 °C, Type 1, Edgewise	ISO 179	140	KJ/m <sup>2</sup>
	-20 °C, Type1, Edgewise	ISO 179	80	KJ/m <sup>2</sup>
Charpy <sub>Notched</sub>	23 °C, Type 1, Edgewise	ISO 179	7.5	KJ/m <sup>2</sup>
	0 °C, Type 1, Edgewise	ISO 179	4.5	KJ/m <sup>2</sup>
	-20 °C, Type 1, Edgewise	ISO 179	3.5	KJ/m <sup>2</sup>
	<b>Thermal</b>			
Heat Deflection Temperature	0.45 MPa Un-annealed	ISO 75B	70	°C
Vicat Softening Temperature	A50 (50 °C/h 10N)	ISO 306	148	°C
<b>Additional</b>				
Tensile Modulus	1-mm/min	ISO 527	1,200	MPa
Izod <sub>Notched</sub>	23 °C	ISO 180	5.4	kJ/m <sup>2</sup>
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 v3.1

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## Technical Data Sheet

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### Special Features

- Amazing result on battery cases articles
- Broad processing window, excellent flowability at optimized molding temperatures
- Tested for VDA 270 compliance (refer RCPD)

### 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 and RCPD are available on request. Please send your request to the following e-mail: [pa@natpet.com](mailto:pa@natpet.com) or visit our website : [WWW.natpet.com](http://WWW.natpet.com)