

**TYPICAL APPLICATIONS**

- ◆ Suitable for injection molding applications
- ◆ Formulated with a highly effective heat stabilization package.
- ◆ Used for the production injection molding applications requiring a good resistance to long term heat exposure, in particular for battery cases and automotive components.

**KEY CHARACTERISTICS**

- ◆ Medium fluidity
- ◆ Good balance of impact and stiffness
- ◆ Low warpage tendency.
- ◆ Good heat aging resistance.
- ◆ Food contact approval for specific applications (*refer to NATPET*)

**PROCESSING METHOD**

Injection molding,

**QUALITATIVE**

Test	Conditions	Method	Value	Unit
<b>Basic</b>				
Density		ISO 1183	0.900	g/cm <sup>3</sup>
Melt Flow Rate (MFR)	230°C/2.16 kg	ISO 1133	7	g/10-min
Melt volume Flow Rate	230°C/2.16 kg	ISO 1133	9.5	cm <sup>3</sup> /10-min
<b>Mechanical</b>				
Tensile Modulus	1-mm/min	ISO 527-1, -2	1,200	MPa
Tensile Stress at Yield	50-mm/min	ISO 527-1, -2	26.0	MPa
Tensile Strain at Break	50-mm/min	ISO 527-1, -2	> 50	%
Tensile Strain at Yield	50-mm/min	ISO 527-1, -2	7	%
Charpy un-notched Impact Strength	23 °C, Type 1, Edgewise	ISO 179	No break	kJ/m <sup>2</sup>
	0 °C, Type 1, Edgewise	ISO 179	140	kJ/m <sup>2</sup>
	-20 °C, Type 1, Edgewise	ISO 179	80	kJ/m <sup>2</sup>
Charpy notched Impact Strength	23 °C, Type 1, Edgewise, Notch A	ISO 179	7.5	kJ/m <sup>2</sup>
	0 °C, Type 1, Edgewise, Notch A	ISO 179	4.5	kJ/m <sup>2</sup>
	-20 °C, Type 1, Edgewise, Notch A	ISO 179	3.5	kJ/m <sup>2</sup>
Ball indentation hardness	(H 358/30)	ISO 2039-1	53	MPa
<b>Thermal</b>				
Heat Deflection Temperature B	0.45 MPa Un-annealed	ISO 75B-1, -2	70	°C
Vicat Softening Temperature	A50 (50°C/h 10N)	ISO 306	148	°C
Vicat Softening Temperature	B50 (50°C/h 50N)	ISO 306	67	°C

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)

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 merchantize 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.