

**TYPICAL APPLICATIONS**

- ◆ Extrusion and thermoforming applications.
- ◆ Used for the production of fruit baskets, trays, transparent drinking cups and containers.

KEY CHARACTERISTICS

- ◆ Nucleated Homopolymer.
- ◆ Excellent Transparency and Processability.
- ◆ Good Stiffness and dimensional stability.
- ◆ Better result in deep thermoforming.
- ◆ Food contact approval for specific applications (*refer to NATPET*)

PROCESSING METHOD

Extrusion and thermoforming

QUALITATIVE

| Test | Conditions | Method | Value | Unit |
|-----------------------------------|----------------------|---------------|-------|-------------------|
| Basic | | | | |
| Density | | ISO 1183 | 0.900 | g/cm ³ |
| Melt Flow Rate (MFR) | 230°C/2.16 kg | ISO 1133 | 3.0 | g/10-min |
| Mechanical | | | | |
| Tensile Modulus | 1-mm/min | ISO 527-1, -2 | 1,600 | MPa |
| Tensile Stress at Yield | 50-mm/min | ISO 527-1, -2 | 37.0 | MPa |
| Tensile Strain at Break | 50-mm/min | ISO 527-1, -2 | > 50 | % |
| Tensile Strain at Yield | 50-mm/min | ISO 527-1, -2 | 9 | % |
| Charpy un-notched Impact Strength | 23 °C | ISO 179 | 190 | kJ/m ² |
| Charpy notched Impact Strength | 23 °C | ISO 179 | 4 | kJ/m ² |
| Ball indentation hardness | | ISO 2039-1 | 78 | kJ/m ² |
| Thermal | | | | |
| Heat Deflection Temperature B | 0.45 MPa Un-annealed | ISO 75B-1, -2 | 90 | °C |
| Vicat Softening Temperature | A50 (50°C/h 10N) | ISO 306 | 154 | °C |
| Vicat Softening Temperature | B50 (50°C/h 50N) | ISO 306 | 94 | °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

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.