Technical Data Sheet

# WrapTek

*Low Energy POF Shrink Film* **Soft**

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WrapTek Soft is a thin polyolefin film that can shrink under heat. It is designed to be a "low energy" film, which means that it applies minimum force when it shrinks. This makes it perfect for wrapping products that usually collapse or curl while being wrapped. The film is very easy to use and can be applied on all kinds of equipment. It helps to create attractive packages without requiring any major fine-tuning or causing rejects.

## SIGNIFICANT PROPERTIES

### General Properties

- Exceptional film durability, even at freezer temperature.
- Superior cold and hot slip.
- Excellent tear resistance.
- Does not embrittle with age.
- Superior gloss, clarity, and transparency.

### Sealing Properties

- No corrosion on sealing wires or equipment.
- No carbon deposit residue on sealing wires.
- Strong and durable seals over a wide temperature range.

### Shrinking Properties

- Offers the lowest shrink force.
- Very clean shrink appearance with excellent conformity of shrinkage.
- Delivers a clean shrink appearance consistently.
- Compatible with all air evacuation systems.

Bagla Group Shrink Films comply with the requirements and regulations of FDA and USDA which states that materials may be used in food contact applications.

## STANDARD PUT-UPS

- Available Thickness: 40, 45, 60 and 75 gauge as cross-linked and non-cross linked variants.
- Single Wound Flat Film is available in custom widths from 3” to 100” in 1⁄4” increments.
- Center Folded Film is available in custom widths from 3” to 50” in 1⁄2” increments.
- Pouches are available in lengths of 4” to 80” and openings of 4” to 40”.
- Center Folded Film has half the linear footage of single-wound flat film for the same thickness (in gauge) and roll dimensions.
- Avaliable as hot perforated and printed options as well.

## APPLICATIONS

- Air filters
- Stationery items
- Thin magazines, paper pads, stickers
- Bundled or unitized printed products

# TECHNICAL SPECIFICATIONS

| Properties | ASTM Test Method | Unit | Thickness (gauge) | | | |
|---|---|---|---|---|---|---|
| | | | 40 | 45 | 60 | 75 |
| Haze | D1003 | % | 2.5 | 2.5 | 2.5 | 3 |
| Gloss at 20° | D2457 | GU | 130 | 125 | 130 | 130 |
| COF, Kinetic | D1894 | - | 0.1 | 0.1 | 0.1 | 0.1 |
| Shrinkage, 102°C (216°F)--10 Min | D1204 | %(area) | 65 | 65 | 65 | 65 |
| Shrink Force (100°C) | D2838 | g/in | 35 | 40 | 50 | 60 |
| Stiffness Modulus (avg) | D882 | kpsi | 25 | 25 | 25 | 25 |
| Tensile Strength (avg) | D882 | kpsi | 5 | 6 | 7 | 8 |
| Elongation (avg) | D882 | % | 90 | 110 | 125 | 140 |
| Tear Strength(avg) (Elmendorf} | D1922 | g | 15 | 20 | 25 | 30 |
| Spencer Impact | D3985 | lbf | 2 | 2.1 | 2.3 | 2.5 |
| WVTR | F1249 | g/100 $in^2$ /24 hr | 3.5 | 3.4 | 3.3 | 3 |
| Oxygen Transmission | D3985 | cc/100 $in^2$/24 hr | 900 | 890 | 860 | 820 |
| $Co_2$ Transmission | C1434 | cc/100 $in^2$/24 hr. | 2700 | 2650 | 2550 | 2450 |

Note: These values are typical data for Bagla-Group shrink film and are not product release specifications, warranties or limiting specifications. Values are based on initial production and tests run during development of this film.

**WrapTek Soft - Linear Footage of Center Folded Shrink Film**

| Core I.D. (Inches) | Roll O.D. (Inches) | Length (feet) | | | |
|---|---|---|---|---|---|
| | | 40 gauge | 45 gauge | 60 gauge | 75 gauge |
| 3 | $9^{1/2}$ | 6,560 | 5,830 | 4,375 | 3,500 |
| 3 | 13 | 13,120 | 11,660 | 8,750 | 7,000 |
| 6 | 11 | 6,560 | 5,830 | 4,375 | 3,500 |
| 6 | 14 | 13,120 | 11,660 | 8,750 | 7,000 |
| 6 | $18^{3/4}$ | 26,240 | 23,320 | 17,500 | 14,000 |

Note: Single Wound Film has double the linear footage of center-fold film for the same thickness (in gauge) and roll dimensions.

## DISPOSAL

- Recycle (Dry or Wet processing to extrude into pellets)
- Waste to Energy (WtE) through incineration (most desirable)
- Land fill

## STORAGE

- Storage below 32 degrees Celsius (90 degrees Fahrenhiet) is recommended.

# ADDITIONAL INFORMATION

**SHELF LIFE:** The typical shelf life of our POF Shrink Films is about 5 years when stored properly.

**DISCLAIMER:** The technical data contained herein are guides to the use of Bagla® products. Bagla Group makes no guarantees of results and assumes no obligations or liability in connection with its advice.


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