Technical Data Sheet

WrapTek Bio

Biodegradable POF Shrink Film

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WrapTek Bio is made with special patented additives to make the film biodegradable complying with relevant industry standards that allow the film to break down in natural conditions after 2-3 years, as confirmed by the supplier of additives and evidenced in the reports by various international laboratories. It decomposes in the presence of bacteria and other microorganisms under natural conditions, producing water, CO_2, and biomass. It is designed to return safely to the environment so it should be the preferred choice for anyone looking to go green.

SIGNIFICANT PROPERTIES

General Properties

- Contains an additive that initiates chemical breakdown more quickly and completely in the presence of oxygen and heat or UV light.
- Extensive abuse resistance of the film helps the products survive rough handling and damages due to multi-packaging.
- Exhibits superior transparency and gloss enhancing product appearance.

Sealing Properties

- Ensures strong & durable seals.
- Operates on a wide sealing temperature range.
- Superior ease of use manually as well on high-speed automatic shrink equipment.

Shrinking Properties

- Balanced shrink for tight and crisp packages.
- High burnout resistance enables sealing on multiple-end seal systems.
- Clean shrink appearance with excellent conformity of shrinkage & minimum dog-ears.
- Easy to run on most types of equipment.

STANDARD PUT-UPS

- Available Thickness: 50, 60, 75 and 100 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

- Retail packaging
- Industrial packaging
- Bundling, Multipacking & Unitizing Products
- Medical Packaging

TECHNICAL SPECIFICATIONS

Properties	ASTM Test Method	Unit	Thickness (gauge)			
			50	60	75	100
Haze (avg)	D1003	%	2.2	2.3	2.4	2.6
Gloss (at 20°) (min)	D2457	GU	135	130	130	125
COF, Kinetic	D1894	-	0.26	0.26	0.23	0.2
Shrinkage, 102°C (216°F)--10 min	D1204	% area	65	65	65	65
Shrink Force (100°C)	D2838	g/in	95	110	130	160
Stiffness Modulus (avg)	D882	Kpsi	37	37	37	37
Tensile Strength (avg)	D882	Kpsi	13	13	13	13
Elongation (avg)	D882	%	120	125	130	135
Tear Strength (avg) (Elmendorf)	D1922	g	20	25	30	35
Spencer Impac	D3420	lbf	8	9.5	11	15
WVTR	F1249	g/100 in^2 /24 hr	2.3	2.5	2	1.5
Oxygen Transmission	D3985	cc/100 in^2/24 hr	1000	900	800	600
CO2 Transmission	D1434	cc/100 in^2/24 hr.	2500	2400	2200	1950

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 Bio - Linear Footage of Center Folded Shrink Film

Core I.D. (Inches)	Roll O.D. (Inches)	Length (feet)			
		50 gauge	60 gauge	75 gauge	100 gauge
3	$9^{1/2}$	5,826	4,370	3,500	2,624
3	13	11,652	8,740	7,000	5,248
6	11	5,826	4,370	3,500	2,624
6	14	11,652	8,740	7,000	5,248
6	$18^{3/4}$	23,304	17,480	14,000	10,496

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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