



WrapTek Tough heavy gauge shrink films are the strongest shrink films on the market. This film can be used as a primary packaging medium for shipping products. It is a great alternative to bulky corrugate and heavy-gauge polyethylene packing material. This shrink film has unprecedented strength. It is also high-abuse and tamper resistant to ensure the product's protection during the most abusive distribution channels and still retain a great retail shelf appeal.

## SIGNIFICANT PROPERTIES



### General Properties

- Heavier Thickness.
- Abuse and Tamper Resistance.
- Increases production rates and throughputs.
- Minimizes packaging and labor costs.



### Sealing Properties

- High shrink force for bundling and multipacking.
- Strong, durable seals due to heavy film thickness.
- Conforms to irregular shapes.
- Excellent tear and puncture resistance.



### Shrinking Properties

- High shrink force for bundling and multipacking.
- Excellent resistance to burn-through.
- 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: 200 and 300 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.
- Shrink 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.
- Available as hot perforated and printed options as well.

## APPLICATIONS

- Packaging Bulky Items
- Bundling Products
- E-commerce Products

# TECHNICAL SPECIFICATIONS

Properties	ASTM Test Method	Unit	Thickness (gauge)	
			200	300
Haze	D1003	%	4.5	6.5
Gloss at 20°	D2457	GU	130	120
COF,Kinetic	D1894	-	0.2	0.2
Stiffness Modulus(avg)	D882	kpsi	47	36
Tensile Strength(avg)	D882	kpsi	15	13
Elongation (avg)	D882	%	170	185
WVTR	F1249	g/100 in <sup>2</sup> /24 hr	0.5	0.3
Tear Propagation	D1938	gms	32	77
PIR Content	Internal	%	30	30

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 Tough - Linear Footage of Center Folded Shrink Film

Core I.D. (Inches)	Roll O.D. (Inches)	Length (feet)	
		200 gauge	300 gauge
3	9 <sup>1/2</sup>	1,180	1,060
3	13	2,360	2,120
6	11	1,180	1,060
6	14	2,360	2,120
6	18 <sup>3/4</sup>	4,720	4,240

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 Fahrenheit) is recommended.

## DISCLAIMER

Bagla Group films technical data is based on reliable tests & information. Still, users should not solely rely on this advice for specific applications, as performance properties may vary based on processing conditions. Users assume this information at their own risk & independent confirmation of its validity and suitability for specific cases is recommended. Bagla Group does not guarantee results & assumes no liability in connection with its advice. This publication does not grant a license to operate or recommend patent infringement.

### Head Office

- New Delhi

### Factories

- 3 in Mundra, India
- 1 in Kolkata, India
- 1 in Dadri, India
- 1 in Ciudad del Este, Paraguay
- 1 in Surabaya, Indonesia

### Domestic Sales Office

- Delhi • Mumbai • Kolkata • Cochin
- Bangalore • Hyderabad • Chennai • Bhopal

### Key Markets

- USA • Canada • Mexico • Germany
- UK • France • Italy • Spain
- Poland • Brazil • Argentina • Australia

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