



**WHITWORTH
ENGINEERS**

Packaging for a Better Tomorrow

STRETCH WRAPPING

CATALOG 2025

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Innovative, **Sustainable**, & Reliable Stretch Film Solutions



At Whitworth, we have been at the forefront of packaging solutions for over 25 years. Our range of stretch films combines cutting-edge technology with sustainable practices to offer superior load containment, reduced plastic waste, and optimized performance. From manual wrapping to high-performance machine films, Whitworth stretch films ensure that your packaging needs are met with precision, durability, and minimal environmental impact.

Why Our Films Are the Sustainable Choice:

- **Reduced Material Usage:** Our films are engineered with thinner gauges and superior stretch capacity, covering more surface area with less material.
- **High Durability:** Superior tear and puncture resistance means fewer layers are needed to secure loads, reducing film consumption.
- **Pre-Stretched Efficiency:** Our pre-stretched films require less force during application, which means less plastic is used overall, saving both resources and energy.

Sustainability, In your Hands

At Whitworth, we believe that sustainability starts with the choices we make every day. As a global leader in packaging solutions, we are committed to delivering high-performance products that not only meet your packaging needs but also reduce environmental impact.

Our stretch films are designed with cutting-edge technology to minimize plastic usage while maximizing efficiency. By choosing thinner, stronger films, you use fewer resources without compromising on load stability or protection. Each roll of stretch film we produce is a step toward reducing plastic waste and carbon footprint.

Film with Lower Gauge, High Strength



Lower Film Consumption



Lower Plastic Usage



Higher Cost Reduction



Our Brands

At Whitworth, we engineer high-performance stretch film solutions designed to meet the diverse needs of industries that require reliable load containment, sustainability, and cost-efficiency. Each of our brands offers unique features that ensure optimal performance for various applications, from light-duty manual wrapping to heavy-duty machine wrapping. Our films are designed to reduce plastic consumption, enhance productivity, and maintain load stability, all while contributing to a sustainable packaging approach.

ManuWrap[®]
MANUAL STRETCH FILM

NanoGuard[®]
MACHINE STRETCH FILM

XtremeGuard[®]
HAND / MACHINE STRETCH FILM

CoreWrap[®]
COMBINATION STRETCH FILM

UltraWrap[®]
PRE - STRETCH FILM



ManuWrap[®]

MANUAL STRETCH FILM

Whitworth ManuWrap is a high-performance manual stretch film ideal for light to medium-duty applications, providing excellent tear resistance and load security even with thinner films.

Key Benefits:

- **Thinner Gauge:** Uses less material, ideal for low-consumption needs.
- **Durability & Strength:** Superior tear resistance ensures secure wrapping even with thinner film.
- **Easy to Use:** Designed for manual wrapping, making it simple and efficient.

Applications:

- Ideal for packaging smaller loads or light to medium-duty applications such as warehouse pallet wrapping and retail product bundling.



Lightweight
Efficiency



Consistent
Performance



Excellent Puncture
and Tear Resistance



Smooth
Unwinding



TECHNICAL DATA SHEET

Specification	Unit	Value
Width	Inch	2 - 25
Thickness	Gauge	39 - 91
Thickness	Microns	10 - 23
Color		Clear / Any Color
Process		Cast / Blown
Elongation MD	%	450 – 500
Elongation TD	%	700 – 750
Tensile MD	Kg/cm ²	300 – 350
Tensile TD	Kg/cm ²	150 – 200
Tear Strength MD	Elemendorf	90 - 145
Tear Strength TD	Elemendorf	660 - 750
Length / Roll	Mtrs	As per request
Weight Per Roll	Kg	As per request

NanoGuard[®]

MACHINE STRETCH FILM

NanoGuard is a high-performance stretch film designed for heavy-duty applications with a focus on using less material and delivering better load containment. It is based on the Nano film's exceptional stretching capabilities and thin gauge technology, allowing users to cover more area with less film.

Key Benefits:

- **Ultimate Stretch Performance:** Capable of stretching up to 300% with thin gauge.
- **Sustainability Focus:** Uses thinner film for reduced plastic consumption. Also available in higher gauges
- **Superior Load Containment:** High tear resistance ensures load stability, minimizing film wastage.

Applications:

- Heavy-duty pallet wrapping in industries like logistics, warehousing, and large-scale manufacturing.

Balance
between
**Strength &
Flexibility**



NanoFlex
MACHINE STRETCH FILM

*Light, Fast
Ultimate Flexibility*

NanoTough
MACHINE STRETCH FILM

*Strong, Durable
Built for Heavy Loads*

Specification	Unit	NanoFlex		
Width	Inch (In)	20	20	20
Width	mm	500	500	500
Thickness	Gauge (GA)	39	48	59-67
Thickness	Microns	10	12	15-17
Color		Clear / Any Color	Clear / Any Color	Clear / Any Color
Process		Cast	Cast	Cast
Elongation MD	%	650	700	750
Elongation TD	%	700	750	800
Tensile MD	Kg/cm ²	280	330	380
Tensile TD	Kg/cm ²	100	150	200
Tear Strength MD	Elemendorf	300	350	400
Tear Strength TD	Elemendorf	1000	1050	1100
Guaranteed Pre-Stretch	%	250	300	320-350
Weight Per Roll	Kg	Max 45 kg	Max 45 kg	Max 45 kg
Length / Roll	Meters	Max 9000 mtrs	Max 7500 mtrs	Max 6300 mtrs
Length / Roll	Foot	Max 29000 FT	Max 24000 FT	Max 20000 FT

Specification	Unit	NanoTough				
Width	Inch (In)	20	20	20	20	20
Width	mm	500	500	500	500	500
Thickness	Gauge (GA)	39	48	59	67	80-90
Thickness	Microns	10	12	15	17	20-23
Color		Clear / Any Color	Clear / Any Color	Clear / Any Color	Clear / Any Color	Clear / Any Color
Process		Cast	Cast	Cast	Cast	Cast
Elongation MD	%	650	700	750	800	850
Elongation TD	%	700	750	800	850	900
Tensile MD	Kg/cm ²	280	330	380	430	480
Tensile TD	Kg/cm ²	130	150	200	250	300
Tear Strength MD	Elemendorf	300	350	400	450	500
Tear Strength TD	Elemendorf	900	1050	1100	1150	1200
Guaranteed Pre-Stretch	%	220	250	300	330	350
Weight Per Roll	Kg	Max 45 kg	Max 45 kg	Max 45 kg	Max 45 kg	Max 45 kg
Length / Roll	Meters	Max 9000 mtrs	Max 7500 mtrs	Max 6300 mtrs	Max 5500 mtrs	Max 4000 mtrs
Length / Roll	Foot	Max 29000 FT	Max 24000 FT	Max 20000 FT	Max 20000 FT	Max 13000 FT

XtremeGuard[®]

HAND / MACHINE STRETCH FILM

Engineered for heavy-duty applications, XtremeGuard offers unmatched tensile strength and puncture resistance. This high-performance stretch film is ideal for securing the toughest loads with minimal film usage.

Key Benefits:

- **High Strength-to-Gauge Ratio:** Thicker and more rigid for heavy-duty applications.
- **Minimal Film Usage:** Reduces the amount of film required while ensuring load stability.
- **Puncture Resistance:** Designed for challenging environments with superior puncture and tear resistance.

Applications:

- Securing large, heavy loads for long-distance transportation or warehousing.

XtremePrime

HAND / MACHINE STRETCH FILM

Engineered for maximum strength and extreme load stability, XtremePrime delivers superior pre-stretch up to 300% with unmatched tear & tensile resistance. Ideal for high-speed wrapping of heavy-duty loads.

XtremeFlex

HAND / MACHINE STRETCH FILM

Designed for demanding applications, XtremeFlex combines excellent pre-stretch to 250% with superior tear resistance and flexibility. A reliable solution for a wide range of medium to heavy pallet loads.

XtremeSpeed

HAND / MACHINE STRETCH FILM

XtremeSpeed is the ideal choice for fast-paced logistics. Offering up to 200% pre-stretch with high elongation, it ensures efficient wrapping and dependable protection for light to medium load pallets.

XtremeLite

HAND / MACHINE STRETCH FILM

Crafted for everyday pallet protection, XtremeLite delivers dependable pre-stretch performance up to 150%. A perfect fit for light, uniform loads where high efficiency and cost optimisation matters most.

Specification	Unit	Xtreme Prime				
Type		Machine	Machine	Machine	Machine	Machine
Width	Inch	20	20	20	20	20
Width	mm	500	500	500	500	500
Thickness	Gauge	40	48	60	68	80-92
Thickness	Microns	10	12	15	17	20-23
Color		Clear / Any Color	Clear / Any Colo	Clear / Any Color	Clear / Any Color	Clear / Any Color
Process		Cast	Cast	Cast	Cast	Cast
Elongation MD	%	650	700	750	800	850
Elongation TD	%	700	750	800	850	900
Tensile MD	Kg/cm ²	280	330	380	430	480
Tensile TD	Kg/cm ²	100	150	200	250	300
Tear Strength MD	Elemendorf	300	350	400	450	500
Tear Strength TD	Elemendorf	1000	1050	1100	1150	1200
Residue Pre-Stretch	%	200	230	270	270	300
Weight Per Roll	Kg	Max 45 kg	Max 45 kg	Max 45 kg	Max 45 kg	Max 45 kg
Length / Roll	Meters	Max 9000	Max 7500	Max 6300	Max 5500	Max 4000
Length / Roll	Foot	Max 29000 FT	Max 24000 FT	Max 20000 FT	Max 18000 FT	Max 13000 FT

Specification	Unit	Xtreme Flex				
Type		Machine	Machine	Machine	Machine	Machine
Width	Inch	20	20	20	20	20
Width	mm	500	500	500	500	500
Thickness	Gauge	40	48	60	68	80-92
Thickness	Microns	10	12	15	17	20-23
Color		Clear / Any Color	Clear / Any Colo	Clear / Any Color	Clear / Any Color	Clear / Any Color
Process		Cast	Cast	Cast	Cast	Cast
Elongation MD	%	600	650	700	750	800
Elongation TD	%	650	700	750	800	850
Tensile MD	Kg/cm ²	220	270	320	370	420
Tensile TD	Kg/cm ²	80	130	180	230	280
Tear Strength MD	Elemendorf	250	300	350	400	450
Tear Strength TD	Elemendorf	950	1000	1050	1100	1150
Residue Pre-Stretch	%	180	200	230	250	250
Weight Per Roll	Kg	Max 45 kg	Max 45 kg	Max 45 kg	Max 45 kg	Max 45 kg
Length / Roll	Mtrs	Max 9000	Max 7500	Max 6300	Max 5500	Max 4000
Length / Roll	Foot	Max 29000 FT	Max 24000 FT	Max 20000 FT	Max 18000 FT	Max 13000 FT

Specification	Unit	Xtreme Speed				
Type		Machine	Machine	Machine	Machine	Machine
Width	Inch	20	20	20	20	20
Width	mm	500	500	500	500	500
Thickness	Gauge	40	48	60	68	80-92
Thickness	Microns	10	12	15	17	20-23
Color		Clear / Any Color	Clear / Any Colo	Clear / Any Color	Clear / Any Color	Clear / Any Color
Process		Cast	Cast	Cast	Cast	Cast
Elongation MD	%	550	600	650	700	750
Elongation TD	%	600	650	700	750	800
Tensile MD	Kg/cm ²	200	250	300	350	400
Tensile TD	Kg/cm ²	40	90	140	190	240
Tear Strength MD	Elemendorf	220	270	320	370	420
Tear Strength TD	Elemendorf	850	900	950	1000	1050
Residue Pre-Stretch	%	150	170	180	200	200
Weight Per Roll	Kg	Max 45 kg	Max 45 kg	Max 45 kg	Max 45 kg	Max 45 kg
Length / Roll	Mtrs	Max 9000	Max 7500	Max 6300	Max 5500	Max 4000
Length / Roll	Foot	Max 29000 FT	Max 24000 FT	Max 20000 FT	Max 18000 FT	Max 13000 FT

Specification	Unit	Xtreme Lite				
Type		Machine	Machine	Machine	Machine	Machine
Width	Inch	20	20	20	20	20
Width	mm	500	500	500	500	500
Thickness	Gauge	40	48	60	68	80-92
Thickness	Microns	10	12	15	17	20-23
Color		Clear / Any Color	Clear / Any Colo	Clear / Any Color	Clear / Any Color	Clear / Any Color
Process		Cast	Cast	Cast	Cast	Cast
Elongation MD	%	500	550	600	650	700
Elongation TD	%	560	610	660	710	760
Tensile MD	Kg/cm ²	180	230	280	330	380
Tensile TD	Kg/cm ²	20	70	120	170	220
Tear Strength MD	Elemendorf	180	230	280	330	380
Tear Strength TD	Elemendorf	790	840	890	940	990
Residue Pre-Stretch	%	100	100	120	150	150
Weight Per Roll	Kg	Max 45 kg	Max 45 kg	Max 45 kg	Max 45 kg	Max 45 kg
Length / Roll	Mtrs	Max 9000	Max 7500	Max 6300	Max 5500	Max 4000
Length / Roll	Foot	Max 29000 FT	Max 24000 FT	Max 20000 FT	Max 18000 FT	Max 13000 FT

CoreWrap[®]

COMBINATION STRETCH FILM

CoreWrap™ is the ultimate semi-rigid, thin gauge, high-strength stretch film designed for extreme load security with minimal material usage. Built around core strength principles, CoreWrap™ offers exceptional wrapping efficiency for modern logistics and industrial needs.

Key Benefits:

- **Semi-Rigid Strength:** Specially designed to provide a firmer, tighter wrap around pallets, improving load stability during transport and storage.
- **Time and Labor Saving:** Reduced wrapping time due to pre-stretching and semi-rigid film properties, improving productivity.
- **Lower Carbon Footprint:** Thin gauge composition uses less plastic per pallet, helping customers meet their sustainability goals.

Applications:

- High-efficiency pallet wrapping in logistics and distribution centers
- Secure wrapping of products in warehouses and storage facilities
- Packaging operations in large-scale manufacturing industries
- Suitable for use with semi-automatic and manual stretch wrapping machines



Excellent Puncture
and Tear Resistance



Lower Carbon
Footprint



Time and
Labor Saving



Consistent
Performance



Specification	Unit			
Type		Hand / Machine	Hand / Machine	Hand / Machine
Width	Inch	20	20	20
Width	mm	500	500	500
Thickness	Gauge			
Thickness	Microns	8	10	12
Color		Clear / Any Color	Clear / Any Color	Clear / Any Color
Process		Cast	Cast	Cast
Elongation MD	%	600	650	700
Elongation TD	%	660	710	760
Tensile MD	Kg/cm ²	280	330	380
Tensile TD	Kg/cm ²	120	170	220
Tear Strength MD	Elemendorf	280	330	380
Tear Strength TD	Elemendorf	890	940	990
Residue Pre-Stretch	%	50	50	50
Weight Per Roll	Kg	Max 45 kg	Max 45 kg	Max 45 kg
Length / Roll	Mtrs	Max 7500	Max 9000	Max 11500
Core	mm	38/51/76	38/51/76	38/51/76

UltraWrap[®]

PRE - STRETCH FILM

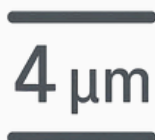
UltraWrap is designed for efficiency and sustainability in everyday pallet wrapping needs, using pre-stretched film technology. It combines ease of use with an eco-friendly approach, focusing on reducing plastic usage for light to moderate load applications.

Sustainability Focus:

- **Pre-Stretched Advantage:** UltraWrap is pre-stretched, meaning it requires minimal effort during application, and results in less plastic used compared to conventional stretch films that need mechanical stretching.
- **Ultra-Thin Gauge:** As low as 4 microns, UltraWrap uses even less plastic, providing efficient load containment without the excess material, contributing to substantial plastic reduction.
- **Optimized Cling and Hold:** Despite being ultra-thin, UltraWrap has strong cling properties, ensuring secure wrapping with minimal film. This reduces the number of wraps required and, consequently, the total plastic used.
- **Environmental Impact:** UltraWrap's pre-stretched and ultra-thin design means it uses a fraction of the material compared to thicker conventional films. The fact that it is pre-stretched minimizes the need for additional equipment or effort to achieve proper tension, reducing energy usage during the wrapping process. Additionally, its minimal plastic use leads to less waste generated after use, helping to reduce landfill contribution.



Pre-Stretched
Advantage



Ultra-Thin
Gauge



Optimized
Cling and Hold



Environmental
Impact

UltraWrap[®]

PRE - STRETCH FILM

UltraWrap is designed for efficiency and sustainability in everyday pallet wrapping needs, using pre-stretched film technology. We believe that protecting your products should also mean protecting the planet. Our pre-stretched film solutions are engineered to drive sustainability across every pallet you wrap.

Smarter Wrapping. Greener Future.

Through intelligent design and cutting-edge manufacturing, UltraWrap™ dramatically reduces material consumption, minimizes waste, and lowers environmental impact — without compromising strength, load security, or operational efficiency.

Feature	Sustainability Impact
Pre-Stretched Efficiency	Uses up to 50% less film per pallet compared to conventional stretch films
Lightweight Rolls	Reduces transportation emissions and energy usage
Reduced Machine Load	Lower energy consumption due to easier film application
Recyclable Material	Fully recyclable under standard polyethylene recycling streams
Supports ESG Goals	Helps companies align with Environmental, Social, and Governance commitments



Specification	Unit	UltraWrap Flex			
Type		Hand / Machine	Hand / Machine	Hand / Machine	Hand / Machine
Width	mm	390-500	390-500	390-500	390-500
Width	Inch (In)	15-20	15-20	15-20	15-20
Thickness	Gauge (Ga)	16	20-24	28	32-36
Thickness	Micron (Mic)	4	6/5	7	8-9
Color		Clear / Any Color	Clear / Any Color	Clear / Any Color	Clear / Any Color
Process		Cast	Cast	Cast	Cast
Tensile MD	Kg/cm ²	230	250	310	350
Tensile TD	Kg/cm ²	70	100	140	190
Tear Strength MD	Elemendorf	190	240	290	350
Tear Strength TD	Elemendorf	800	850	900	920
Residue Pre-Stretch	%	<20	<20	<20	<20
Core	mm	38/51/76	38/51/76	38/51/76	38/51/76
Edge Fold	5 mm	Optional	Optional	Optional	Optional
Length	Machine	Upto 2000 mtr	Upto 2000 mtr	Upto 2000 mtr	Upto 2000 mtr
	Hand	Upto 500 mtr	Upto 500 mtr	Upto 500 mtr	Upto 500 mtr

Specification	Unit	UltraWrap Armor			
Type		Hand / Machine	Hand / Machine	Hand / Machine	Hand / Machine
Width	mm	390-500	390-500	390-500	390-500
Width	Inch (In)	15-20	15-20	15-20	15-20
Thickness	Gauge (Ga)	20	24	27	31
Thickness	Micron (Mic)	5	6	7	8
Color		Clear / Any Color	Clear / Any Color	Clear / Any Color	Clear / Any Color
Process		Blown	Blown	Blown	Blown
Tensile MD	Kg/cm ²	250	280	330	380
Tensile TD	Kg/cm ²	910	120	170	220
Tear Strength MD	Elemendorf	240	280	330	380
Tear Strength TD	Elemendorf	860	890	940	990
Residue Pre-Stretch	%	<20	<20	<20	<20
Core	mm	38/51/76	38/51/76	38/51/76	38/51/76
Edge Fold	5 mm	Optional	Optional	Optional	Optional
Length	Machine	Upto 2000 mtr	Upto 2000 mtr	Upto 2000 mtr	Upto 2000 mtr
	Hand	Upto 500 mtr	Upto 500 mtr	Upto 500 mtr	Upto 500 mtr

Office

Whitworth Engineers Pvt Ltd
Plot No 318 & 322, Jeedimetla Industrial Area
Hyderabad, India - 500055

Contact

Phone: +1 (973) 333 4854
Web. www.whitworthindia.com
Email: karthik@whitworthindia.com





SPECIALITY FILMS

CATALOG 2025

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FlexiShrink

SHRINK WRAP

Whitworth's Shrink Wrap products offer a reliable and cost-effective solution for a wide range of packaging needs. Designed to provide a tight, secure wrap around products, our shrink films are perfect for safeguarding goods from dust, moisture, and damage during transit and storage. Whether for industrial packaging or retail presentation, Whitworth Shrink Wrap ensures your products remain intact and presentable.

Key Benefits:

- **Protection:** Shields products from dust, moisture, and external damage.
- **Versatile Application:** Suitable for bundling, palletizing, and protecting a variety of goods, from large industrial items to smaller retail packages.
- **Clarity & Aesthetic:** Provides excellent clarity and gloss, enhancing the appearance of packaged goods, making it ideal for retail and consumer products.
- **Durable & Flexible:** Ensures a tight fit around objects of various shapes and sizes, offering both strength and flexibility.
- **Heat-Shrink Technology:** Shrink wrap contracts tightly with heat, creating a secure and tamper-evident seal.

Made of LDPE

LDPE shrink wrap offers exceptional strength and flexibility, making it ideal for securing heavy-duty and irregularly shaped items. It provides excellent protection against moisture, dust, and UV damage, ensuring products remain safe during transit and storage. With its puncture resistance and recyclability, LDPE shrink wrap is a cost-effective and environmentally friendly packaging solution. Its versatility and ease of use make it suitable for both industrial and consumer applications.

TECHNICAL DATA SHEET

Type	Shrink Film
Width	200 - 2100 mm
Thickness	35 - 120 microns
Thickness	140 - 480 Gauge
Color	Clear / Any Color
Process	Blown
Elongation MD	400 – 700%
Elongation TD	800 – 950%
Tensile MD	200 – 300 Kg/cm ²
Tensile TD	150 – 220 Kg/cm ²
Dart Drop	150 - 180 grams
Shrinkage MD%	70 – 80% at 160°C
Shrinkage TD%	10 – 40% at 160°C

HoodWrap

STRETCH HOOD FILM

Whitworth's Hood Wrap is an innovative and reliable packaging solution designed to provide maximum load stability and protection. Engineered with high tear and puncture resistance, it ensures that goods remain secure during transit and storage. With its versatile application, Stretch Hood can adapt to different load sizes, reducing the need for multiple films and providing a cost-effective, eco-friendly solution.

Key Benefits:

- **High Tear and Puncture Resistance:** Offers superior protection for heavy and irregularly shaped loads, minimizing the risk of damage.
- **6-Sided Packaging:** Ensures complete product coverage, offering enhanced protection from environmental factors like dust, moisture, and UV light.
- **Adaptive Design:** Suitable for a wide range of sizes, reducing the need for custom packaging solutions.
- **Low Friction:** Ensures smooth handling during transportation and storage, minimizing the risk of film damage or pallet slippage.
- **Sustainability:** Reduces overall film consumption, contributing to lower plastic use and packaging waste.

Ideal For:

- Building materials
- Chemicals
- Corrugated packaging
- Food & beverage industries
- Household appliances
- Paper and printing materials

Whitworth's Stretch Hood solution provides an unmatched balance of strength, flexibility, and sustainability, making it the ideal choice for industrial packaging needs. Whether for large loads or irregularly shaped goods, our Stretch Hood wraps offer exceptional protection and efficiency.

TECHNICAL DATA SHEET

Parameter	Unit	Value
Thickness	Micron	70 - 120
Width	Mm	700 - 1600
Gusset	Mm	200 - 500
Elongation MD	%	550 – 750
Elongation TD	%	700 – 800
Tensile MD	Kg/cm ²	450 – 500
Tensile TD	Kg/cm ²	220 – 270
Dart Drop	Grams	250 - 350
COF (Coefficient of Friction)		0.35 – 0.45
Tear Strength MD	Elemendorf	600 – 800
Tear Strength TD	Elemendorf	1000 – 1400
Max Stretch	%	130
UV Stabilized	Months	6 months

Office

Whitworth Engineers Pvt Ltd
Plot No 318 & 322, Jeedimetla Industrial Area
Hyderabad, India - 500055

Contact

Phone: +1 (973) 333 4854
Web. www.whitworthindia.com
Email: karthik@whitworthindia.com



***PACKAGING FOR
BETTER TOMORROW***

