

MMP CORPORATION

ASIA'S LEADING STRETCH AND
FOOD FILM PRODUCER

WE FOCUS ON

- USING PREMIUM QUALITY RAW MATERIAL
- UTILIZING THE LATEST PRODUCTION TECHNOLOGIES
- PRODUCING BOTH GENERAL PURPOSE AND TAILORED PRODUCTS



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COMPANY PROFILE

ABOUT US

- MMP Corporation Ltd., established in 1988, is the largest plastic film manufacturer in Thailand. We offer premium quality stretch cling film, and food grade cling wrap Polyvinyl Chloride (PVC) and Polyethylene (PE) films.
- Currently we are the national and regional leader in food cling film and a global supplier in stretch cling film with annual capacities exceeding 10,000 and 80,000 MT for food cling wrap and stretch cling film respectively.
- Our success focuses on sustainable growth, with an emphasis based upon the principle of human respect through a good governance policies. Our employees are considered the company's partners embracing our corporate DNA to drive the organization to ever greater heights.

"We can produce products to your specification. As an OEM, we are able to design packaging to suit your brand as well as offering product specifications to suit customers needs."

"We are able to export worldwide and comply with international practices to ensure global acceptance of our products"

KEY CERTIFICATIONS INCLUDE :

2000 TIS 1136-2536 from Thailand Industrial Standard Institute

ISO 9002 : 1994

2003 Upgrade to ISO 9001 : 2000

2004 TIS 18001 : 1999

2005 Green Activity (Green CANON Version 3.0)
in Relation to Environment

2007 Green Procurement Standards Parts and Materials
(Green CANON Version 4.0)

OHSAS 18001 : 1999

2009 Upgrade to ISO 9001 : 2008

Upgrade to OHSAS 18001 : 2007

2015 Green Industry in Ministry
of Industry

2017 Good Manufacturing
Practices (GMP) Certification
and HACCP

Upgrade to OHSAS
18001 : 2007



TIS 1136 - 2536





M Wrap[®]

M Wrap is a hygienic food wrapping film that is made from special food grade polymers of Polyvinyl Chloride (PVC) and Polyethylene (PE). It is produced using advanced Japanese technology from Riken Vinyl Industry Co., Ltd. In line with Japanese food wrapping film standards, M Wrap is FDA approved and sold around the world.

To ensure the highest quality film, M Wrap uses premium grade, all virgin materials, as well as Hexamoll® DINCH from BASF to enhance the durability and property performance of the film. Hexamoll® DINCH is approved by the European Food Safety Authority (EFSA) and, has been certified as safe for use in food packaging.

Multi Purpose

M Wrap is a multi functional film that is commonly used in the food industry. It is usually found in retail and catering outlets including; supermarkets, hotels, restaurants as well as home use. M Wrap can also be used in healthcare and beauty industries as it is hygienic and versatile.

Benefits of M Wrap

- **Able to use in both of microwave and freezer :**
The film will not melt or break under extreme temperatures. Frozen foods wrapped with M Wrap can be immediately put into a microwave to defrost.
- **Convenient and easy to use :**
M Wrap grips tightly; seals any surface including plates, glasses or ceramic ware. The film elastic quality makes it easy to stretch and seal on food containers.
- **Keeps fresh products hydrated :**
M Wrap features proper gas to water vapor transmission ratio that slows down respiration of fruits and vegetables, thus preventing dehydration.

- **Maintains freshness and taste :**
M Wrap acts like a second skin barrier, which prolongs the shelf life of fresh foods. It maintains the moisture within the food, while preserving the fresh taste and color.
- **Enhances presentation :**
M Wrap showcases high transparency and a glossy appearance within its film. This helps enhancing the visual presentation of the food. M Wrap keeps food looking fresh longer, ensuring the best-looking product.
- **Hygienic :**
M Wrap provides a hygienic barrier that protect from bad food odors and external contaminations. It ensures that there is no spillage in microwaves or refrigerators and keeps your food protected and clean.
- **Cost effective :**
Using advanced manufacturing technology from around the globe and premium materials M Wrap is a thin but durable film that is also very cost efficient compared to other leading manufacturers.



3 Different types of application

Home Use



- Smaller rolls that are presented in a convenient, durable cardboard carton, with a hand-perforated edge for ease of use.

Catering Use



- Suitable for businesses such as airlines, hotels, restaurants, bakery shops. We can also offer an eco-friendly reusable dispenser along with refill rolls.

Industrial



- Intended for retail chains and manufacturers who require high stretch and high cling. We can also offer an electric hand packer that is up to 45 cm film width. Additionally we do offer portable plastic boxes for your convenience.

Product Range

Usage	Width (mm)	Length (m)	Thickness (µm)	ID. Core (mm)
Home Use	300	30, 60, 100	8, 9, 11	38
Catering Use	300, 450	300, 500, 600	8, 9, 10	38, 50
Industrial Use	200, 250, 300, 350, 400, 450, 600	500, 1,000, 1500	8, 9, 10, 11, 13, 15, 16	76

Remark : Made to order sizes are offered.



M Stretch

M Stretch is pallet wrapping cling film that comes in multilayer configurations that combines different layer functionalities for optimum load stability, protection and cost effective solution. The film formulations include usage of the latest metallocene polymer technology to provide extra durability and stretchability. This is matched by M Stretch film production on high end machinery which are fully computerized and equipped with MEASUREX film thickness gauge control to keep quality consistently high.

Benefits of M Stretch



Product protection

M Stretch protects products from dust, dirt and water damage. Pallets are able to safely and sturdily be transported.

Customer satisfaction

M Stretch incorporates the latest premium Metallocene polymer and produced to give customers the best possible product.

Operational effective

M Stretch can reduce set up times with its easy to use film that provides good cling, while leaving no sticky residue.

Cost efficient

Using the latest manufacturing techniques, M Stretch film is a thinner but stronger film that provides high elongation and tensile strength. M Stretch film is more cost efficient when compared to other leading manufacturers by reducing the amount and waste of film usage.

HAND ROLL

- **Description :**

This multi layered film gives good toughness and has good inherent cling to protect pallet loads of any configuration. The versatile film comes in different core sizes and various film thicknesses to cater for ease of use, holding different load weights with good puncture resistance. In addition to our standard hand rolls product, Coreless, Pre-Stretch and Folded Edge versions are also offered.

- **Features :**

Economical, general purpose high clarity film available in thicknesses ranging from 8 to 30 microns supporting different load weights and arrangements. Cartons comes in 4 – 6 rolls configurations and lengths are in handy and 300 meters up per roll for easy handling.

- **Application :**

Suitable for manual application with or without a hand roll dispenser. Use thinner films for general dust protection and heavier film thicknesses, for heavier loads and good load stability.

Product Range for Standard Hand Roll

Usage	Width (mm)	Length (m)	Thickness (µm)	Rolls/Carton	ID. Core (mm)
Hand Roll (Functional)	500	400 up to 600	8 up to 12	4, 6, 8	50, 76
Hand Roll (Conventional)	400, 450, 500	300 up to 500	13 up to 35	4, 6, 8	50, 76



Coreless

Our Coreless version is the hand roll grade of M Stretch Film. It provides the same high consistency, typical of M Stretch Film, but without the traditional cardboard core. This innovation reduces the amount of waste and roll weight by removing the cardboard core and is well suited for eco-conscious consumers and organizations with sustainability goals. M Stretch Coreless provides both a 100% recyclable environmentally friendly and cost efficient solution to wrap pallets.

Usage	Width (mm)	Length (m)	Thickness (µm)	Rolls/Carton	ID. Core (mm)
Hand Roll	400, 500	300	14 up to 17	6	-



Pre-Stretch

This is produced by pre-stretching M Stretch Film to provide a film tension that optimizes the usage of the film. The pre-stretching process increases the length and reduces the thickness of the film prior to application on the load. It is user friendly, as the user does not have to use as much physical strength when wrapping pallets. Our Pre-Stretch uses 50% less film than standard rolls (in weight) and provides up to 3 times more length than conventional film per volume. It helps to reduce packaging costs.

Usage	Width (mm)	Length (m)	Thickness (µm)	Rolls/Carton	ID. Core (mm)
Hand Roll	450	450, 500	8, 10, 12	6	50, 76



Folded Edge

Folded Edge is a highly resourceful and innovative film that provides multiple advantages for successful shipping of products. The folded edge is constructed from a high quality pre-stretched film that is derived from M Stretch. Folded edge technology provides reinforced edges that give additional support and durability to the film by doubling the thickness of the edges. M Stretch folded edge improves the edge strength and creates superior roping effects when wrapping pallets. This eliminates film breaks caused by nicked edges and eliminates waste due to dropped and damaged rolls.

Usage	Width (mm)	Length (m)	Thickness (µm)	Rolls/Carton	ID. Core (mm)
Hand Roll	425 (After Folded)	600	10	6	50, 76

Remark : All verion are available as made to order.

MACHINE ROLL

M Stretch General Purpose (GP)



Description : This general purpose grade is an economical solution for most turntable pallet wrapping machine applications. This general purpose film has a one-sided cling and comes in a wide range of film thicknesses. A higher film thickness can cater for increased load weight and stretched up to 200%.

Features : One sided-cling; Consistent quality; Economical solution Available in 15, 17, 20, 23, 25 & 30 microns. Good puncture resistance.

Application : Suitable for turntable pallet wrappers with or without a pre-stretch unit. Relatively uniform load shapes. Heavier film gauge stretched at a higher level for heavier loads.

M Stretch High Performance (HP)



Description : This grade is formulated from high performance polymers providing high film toughness to cater for both regular and irregular pallet load configurations. It provides good load stability and the higher thickness can be stretched up to 250% on stretch wrappers with pre-stretch units.

Features : High film toughness; High stretchability; Cost effective formulation incorporating high performance polymer; High load stability; Available from 12 to 30 microns.

Application : Suitable for machines with a pre-stretch unit; can wrap both uniform and irregular shaped loads. Higher pre-stretch level to lower cost of film used per unit pallet.

M Stretch Premium Performance (PP)



Description : This premium performance grade is formulated using the latest polymer technology. It has high film toughness and provides opportunities to use thinner film or higher pre-stretched levels to lower the cost per pallet wrapped. Total stretch level could be as high as 300% with higher film gauges. It is suitable for high speed automatic and semi automatic stretch wrappers.

Features : Excellent physical properties; High stretch level; Incorporates latest Polymer technology; High quality and minimal film breakages for uninterrupted wrapping cycles.

Application : Suitable for automatic or semi automatic machine with high pre-stretch unit. Opportunity to use lower film gauge to lower cost for pre-stretch application. Lower downtime on automatic wrapping machine.

M Stretch High Toughness (HT)



Description : High performance and high molecular weight polymers are used to impart the high toughness. This is suited to irregular loads requiring high puncture resistance and/or high load retention. Total stretch level of up to 250% with higher film gauges.

Features : Excellent film toughness; High load retention; Available from 17 to 25 microns.

Application : Suitable for turntable pallet wrappers with or without a pre-stretch unit. Irregular loads requiring high puncture resistance; Heavy loads requiring high load retention.

M Stretch THAITANIUM



Description



Utilising the very latest innovative technology developed for thin films, with high pre-stretch performance. Up to *300% pre-stretch on higher gauge films to give a highly cost effective solution for high speed, high pre-stretch automatic or semi automatic pallet wrappers.

Features



Advanced polymer processing and formulation technology. High film toughness at low film gauges. High stretchability. Improved tear resistance for uninterrupted wrapping cycles. More economical wrapping per pallet. Available from 11 to 17 microns.

Application



High speed, high pre-stretch units, in automatic and semi automatic pallet wrappers.

up to ***300%**
Pre-stretch

THAITANIUM

Product Data Sheet (PDS)

*Remark : Depend on machine performance.

Code	ULTIMATE	TENSILE		ELONGATION		TEAR		CLING	PUNCTURE
	STRETCH %	MD MPa	TD MPa	MD %	TD %	MD mN	TD mN	WD. N-mm	WD. N-mm
THAITANIUM14	350	40	25	560	660	2510	4100	8	1870
STDSpec	250	38	18	400	550	1600	4500	5	1300
THAITANIUM17	360	40	25	570	750	2640	5700	8	2500
STDSpec	280	38	20	440	590	1800	5300	5	1500
PP23	340	45	30	580	860	3250	6450	8	2650
STDSpec	230	32	18	430	590	1950	4600	5	1700
PP20	305	45	30	530	830	2950	5930	8	2300
STDSpec	230	32	17	410	570	1850	4400	5	1600

Product Range Machine Roll

Usage	Width (mm)	Length (m)	Thickness (µm)	Rolls/Carton	ID. Core (mm)
Bundling Roll	50, 75, 100, 125, 150	250 up to 600	15 up to 35	20 up to 40	38, 50, 76
Spiral Roll	240, 250, 300	400 up to 2000	15 up to 35	1 up to 4	76
Machine Roll	500	1000 up to 2500	12 up to 35	1	76

Remark : All verion are available as made to order.

"Our product and service quality is trusted by customers in over 50 countries around the world"





STRETCH HOOD

MMP Stretch Hood Film is a tube of film sealed at one end and stretched over a palletized load to secure the contents to the pallet. It provides load stability and abuse resistance. With five-sided protection, it ensures product stays dry and provide protection to all outdoor elements. The clear film also provides a good view of the packaged products.

Product Range

Thickness (μm)	Film Tube Circumference (mm)
40 - 120	1530 - 3600

Remark : Made to order sizes are offered.



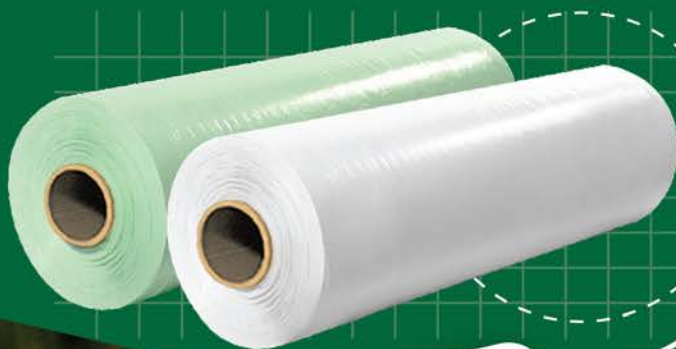
SILAGE FILM

MMP Silage Wrap Film is used to conserve and store crop nutrient. It minimizes crop losses from harvesting to feeding by stretch wrapping around baled silages in an airtight environment. With the latest global polymer technology, MMP Silage Film has very high resistance to puncture, abrasion, tearing and UV resistance suitable for outdoor storage. Its excellent cling level gives an air tight condition coupled with good barrier to moisture and oxygen transmission, preserve nutrient and overall silage quality. MMP Silage Film has been tested by The German Agricultural Society (Deutsche Landwirtschafts-Gesellschaft), commonly known as DLG and shown to have meet their silage film performance standard.

Product Range

Reel Width (mm)	Colour	Film Length (m)	Film Thickness (µm)
500	White / Green	1800	25
750	White / Green	1500	25

Remark : Made to order sizes are offered.



International high quality standard materials and manufacturing

Excellent high tack levels

Maximum puncture and tear resistance

UV Resistance, Moisture and Oxygen Barrier meets The German Agricultural Society, DLG, Standard



**CONTINUOUS
MONITORING**

DLG Certificate 6905





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