Sigma Plastics Asia

Helping You Wrap Smarter. Save More. Waste Less.



SIGMA PLASTICS ASIA COMPANY LIMITED
บริษัท ซิกม่า พลาสติก เอเชีย จำกัด

About Sigma Plastics Asia

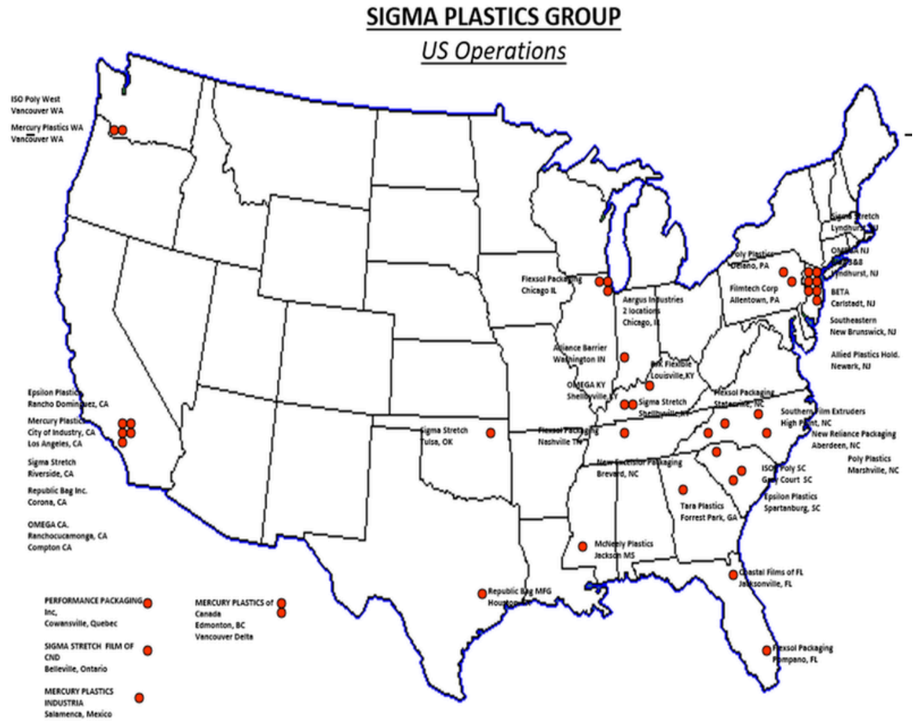
A Leader in Stretch Film Solutions Across Southeast Asia

Sigma Plastics Asia is a **joint venture** between Sigma Plastics Group from the USA and King Pac Industrial in Thailand.

Sigma is the **world largest private company,** which produces flexible packaging and stretch film product.

The company has over **44 factories** in North America, based in Pompano Beach, Florida.

With over 50 facilities and a production capacity of 23,000 tons per year, we proudly serve more than 20 countries, establishing a robust presence in the **stretch film** market.





Sigma Stretch Film®
THE INDUSTRY LEADER

KPI
KING PAC INDUSTRIAL CO.,LTD.



OUR CORE COMMITMENT

We are committed to delivering solutions that create measurable value for our customers.

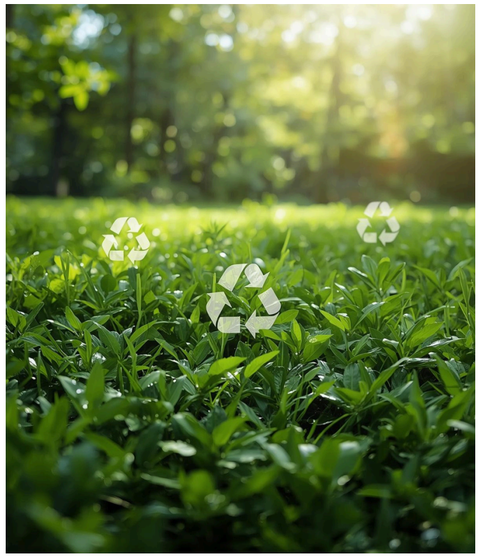
PERFORMANCE
Reliable films designed for demanding applications



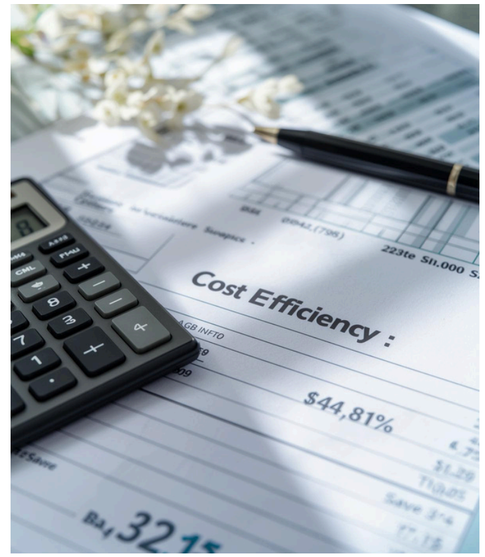
PARTNERSHIP
Long-term collaboration focused for mutaul success



SUSTAINABILITY
Practical solutions that reduce plastic consumption



EFFICIENCY
More pallets wrapped with less material



Technology Advantage

European co-extrusion technology for consistent film quality

- Produced using cutting-edge European extrusion lines for consistent thickness, high clarity, and strong load retention
- Made from a special LLDPE (Linear Low-Density Polyethylene) formulation with superior stretchability, strength, and high cling performance
- Supported by European know-how and our jointed R&D team





WHY SIGMA?

Six reasons why **Sigma** is your best packaging solution partner.



MORE THAN STRETCH FILM

We believe the best packaging solution is not necessarily the thickest film or the lowest-cost film per kilogram.
It is the film that delivers the best total value per pallet.



COST EFFICIENCY

Reduce film consumption and optimize packaging cost through lower sourcing and high-performance film technology.



PERFORMANCE

Engineered for strong stretchability, puncture resistance, cling, and reliable load containment.



OPERATIONAL EFFICIENCY

Improve wrapping productivity and reduce operator effort through solutions such as pre-stretch and high-performance films.



SUSTAINABILITY

Reduce virgin plastic consumption through down-gauging and PCR film options.



PARTNERSHIP

We work with customers to understand their application and recommend the right film for their actual packaging requirements.



Better Film. Better Performance. Better Value.

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OUR PRODUCT PORTFOLIO

The Right Film for Every Application

MACHINE STRETCH FILM

For automated wrapping operations where consistency, productivity, and load stability are critical.



Ideal for:

Turntable wrappers | Ring wrappers

Robotic/automated wrapping systems

HAND STRETCH FILM

Flexible and reliable solutions for manual pallet wrapping.



Ideal for:

Warehouses | Distribution |

General industrial applications

STIFF HAND FILM

Higher stiffness and load-holding performance for demanding manual wrapping applications.

Key benefits:

- Strong load stability
- High durability
- Strong load-holding force
- Heavy-duty performance

PRE-STRETCH FILM

Pre-stretched during manufacturing to reduce film usage and make manual wrapping faster and easier.



Key benefits:

- Reduced film consumption
- Lower packaging cost
- Faster wrapping
- Less operator effort
- Reliable load stability

QUALITY YOU CAN TRUST

Consistent performance, strict quality control, and reliable supply.

SOLUTIONS FOR EVERY NEED

A complete range of films designed to match your application and operations.

SUSTAINABLE BY CHOICE

Innovative film options that help reduce plastic usage and support a more sustainable future.

OUR PRODUCT PORTFOLIO

Innovative Films. Reliable Performance. Sustainable Solutions.

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VENTED STRETCH FILM

Designed to allow airflow through packaged loads.



Key benefits:

- Improved airflow
- Reduced moisture build-up
- Faster cooling
- Better product protection

Suitable applications:

- Fresh produce
- Chilled products
- Frozen products
- Horticulture

PE CLING FILM

A high-performance alternative to conventional PVC cling film for food packaging applications.



Key benefits:

- Food-contact applications
- Excellent cling
- High clarity
- Strong flexibility

Better for you and the planet:
No added plasticizers, PVC- and chlorine-free, Recyclability advantages

PCR STRETCH FILM

Sustainable stretch film solutions incorporating post-consumer recycled material.



Key benefits:

- Reduces virgin plastic consumption
- Supports circular economy goals
- Supports ESG initiatives
- Maintains reliable load containment

Available for hand and machine applications

CORELESS FILM

Smart packaging solution that eliminates the core for less waste and more efficiency.



Key benefits:

- Reduces cardboard core waste
- More usable film per roll
- Lower disposal cost
- Improved sustainability

QUALITY YOU CAN TRUST

Consistent performance, strict quality control, and reliable supply.

SOLUTIONS FOR EVERY NEED

A complete range of films designed to match your application and operations.

SUSTAINABLE BY CHOICE

Innovative film options that help reduce plastic usage and support a better future.

PERFORMANCE THAT DELIVERS

Designed to Protect Every Load

“Our stretch films are engineered to balance the properties that matter most during storage and transportation”



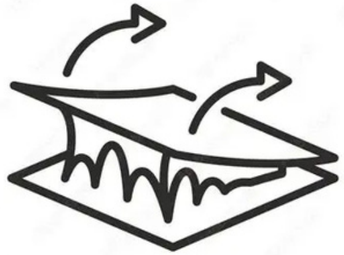
STRETCHABILITY

Use less material while achieving the required wrapping performance



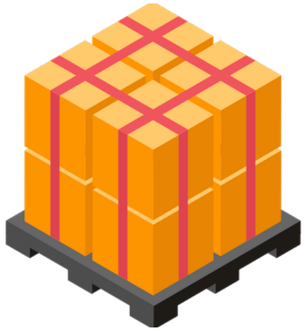
PUNCTURE RESISTANCE

Protect loads with sharp edges and demanding shapes



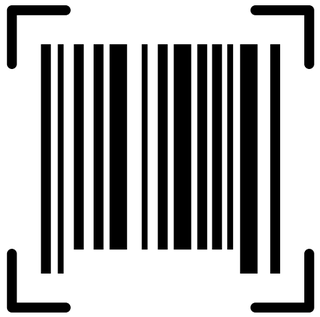
CLING

Maintain reliable film-to-film adhesion and load containment



LOAD CONTAINMENT

Keep products securely positioned throughout handling and transportation



CLARITY

Improve visibility and support barcode scanning



DURABILITY

Deliver reliable performance under demanding handling conditions

DO MORE WITH LESS

Down-Gauging Without Compromising Performance

Thinner film does not necessarily mean weaker packaging. With the right film design and application, customers can **reduce film thickness while maintaining — or improving — load security.**

Example: Hand Film

Type	Cont. F (lbs)	Cont. F (kg)	Weight Per Pallet (g)	Waste Reduction (%)
Conventional 15 Micron Eco	5.7	2.6	161	
9 Micron Stiff	6.8	3.1	106	-34%
Prestrech 8Micron	7	3.2	93	-42%

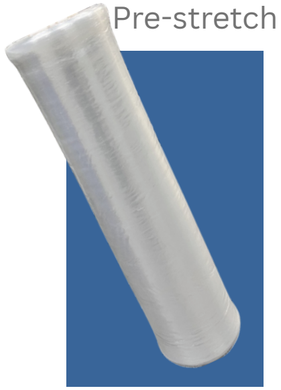
Conventional 15 micron



Stiff film 9 micron



Pre-stretch 8 micron



“ less material per pallet, more pallets wrapped per roll, and less plastic waste ”

=

savings of

42%

materials

MACHINE FILM

TECHNICAL PERFORMANCE YOU CAN RELY ON

Tested under controlled machine film conditions to deliver reliable containment, efficient material use, and cosistent results



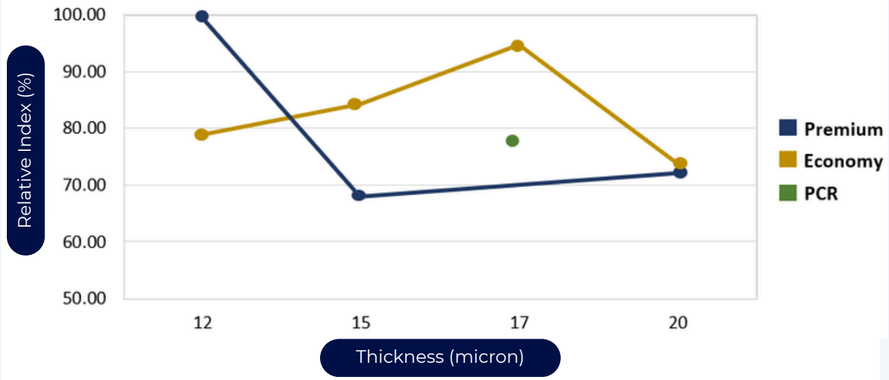
Strong Containment
Engineered to secure loads maintain pallet stability

Material Efficiency
Optimized film usage helps reduce material consumption

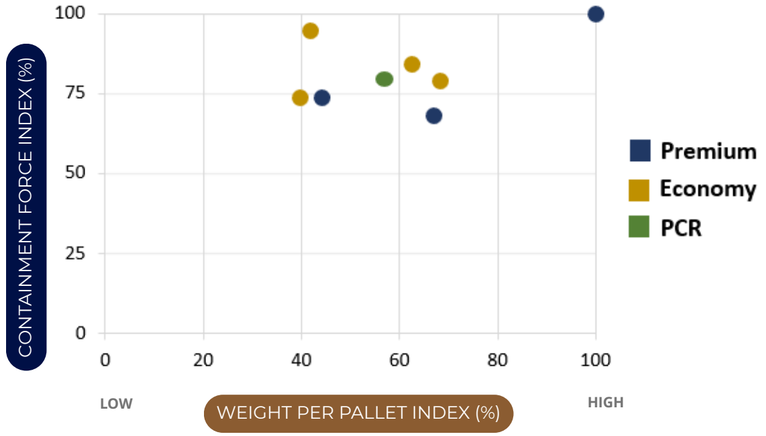
Sustainable Options
PCR films available to support your sustainability goals

1 CONTAINMENT FORCE BY GAUGE

Relative Containment Force Index (HIghest testes results = 100)



2 PERFORMANCE VS MATERIAL EFFICIENCY



Higher performance is achieved with moderate material usage, showing a good balance between strength and efficiency.

TECHNICAL INSIGHT

- Film construction, not gauge alone, influences containment performance
- Lower gauge films can achieve high containment under the right conditions.
- PCR 35% and 50% 17 micron show comparable measured results

The Bigger Picture
Better performance. Less mateiral. Lower environmental impact

3 PRODUCT RANGE OVERVIEW

PRODUCT FAMILY	CONTAINMENT PERFORMANCE	MATERIAL EFFICIENCY	IDEAL APPLICATION
PREMIUM	High	High	Heavy loads, high pallet stability, long distance transport
ECONOMY	Good	Good	General purpose wrapping,cost-conscious operations
PCR (35%, 50%)	Good	Good	Sustainability-focused applications

** Performance level based on internal machine-film testing **

WHY IT MATTERS

RELIABLE PERFORMANCE
Consistent containment for real-applications

COST EFFICIENT SOLUTIONS
Optimized film usage helps reduce material cost and waste

SUSTAINABLE FUTURE
PCR options help support circular economy and reduce impact

BUILT FOR YOUR NEEDS
Different gauges and grades for caried pallet and load types

Tested under controlled conditions machine conditions.
Actual performance may vary depending on equipment, load type, wrap pattern and operating conditions

SUSTAINABLITY

Sustainability That Works in the Real World

We believe sustainable packaging should deliver both environmental value and reliable performance.
Our sustainability approach focuses on two key strategies

1 USE LESS

Advanced down-gauging helps reduce
the amount of plastic required per pallet.

2 USE RECYCLED MATERIAL

PCR stretch film options help reduce
reliance on virgin plastic.



PCR STRETCH FILM

“ Closing the Loop with In-House Recycling ”

Our integrated recycling approach allows post-consumer plastic to be converted into **high-performance stretch film while maintaining control over material quality and film performance**

= savings of 28% materials

** Sustainability should not require sacrificing performance **

CORELESS PRODUCTS

Less waste. More material efficiency

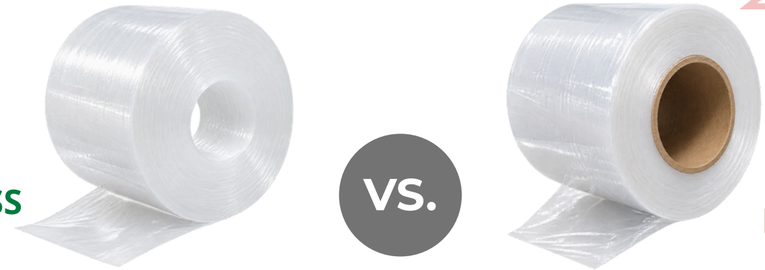
The difference is clear.

Turntable testing shows a significant reduction in the leftover material with the coreless product compared with the tested papercore product.

	CORELESS	PAPER CORE
Remaining Waste	**55** g	860 g
Waste Reduction	**93.6%** less	-

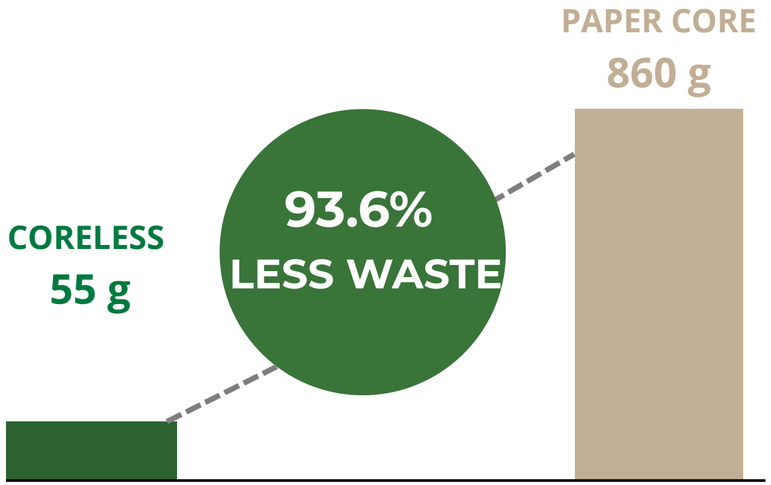


CORELESS = MORE PRODUCT USED, LESS WASTE LEFT BEHIND



93.6% LESS WASTE

Coreless products leave only **55g** of material waste compared with **860g** with paper-core products





That means

805 g

less waste per roll

WHY IT MATTERS

Reduce Waste
Minimize leftover material and landfill impact

More Material Used
More product in every roll for better values

Sustainability choice
A simple switch for a greener and more efficient future.

** Test results based on turntable machine testing. Actual results may vary depending on application and operating conditions **

FROM PACKAGING TO BUSINESS VALUE

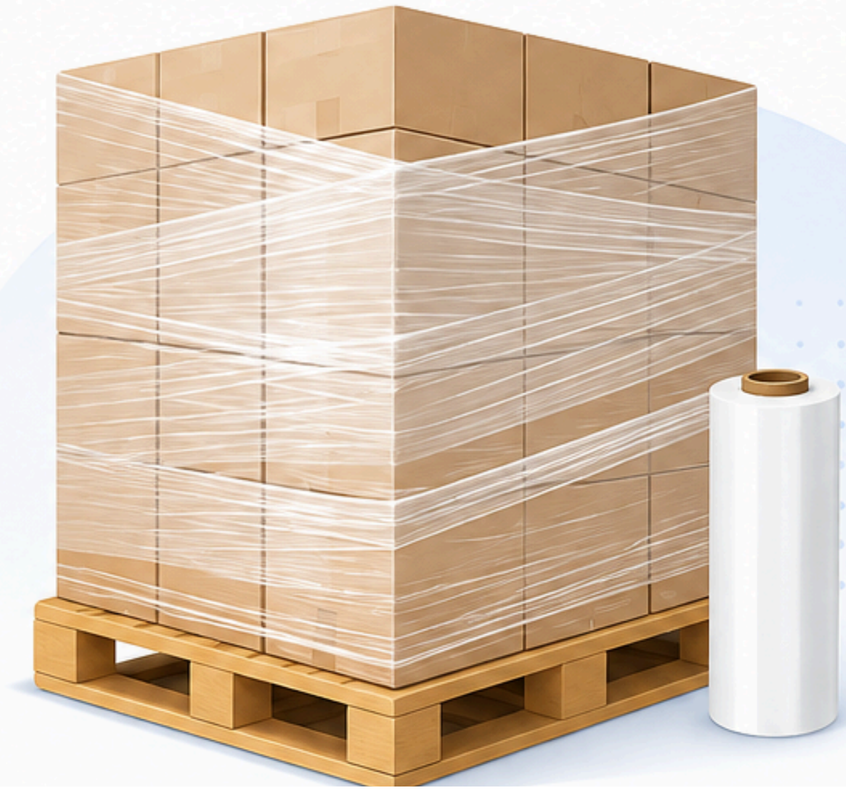
We Look Beyond Film Price

The real cost of stretch film is not simply the price per kilogram. We help customers evaluate the **total packaging cost per pallet.**

TOTAL VALUE CAN COME FROM:

- Lower film consumption
- ↓
- Fewer rolls required
- ↓
- Higher wrapping productivity
- ↓
- Lower labor effort
- ↓
- Less packaging waste
- ↓
- **LOWER TOTAL COST PER PALLET**

This is where **high-performance stretch film** creates value beyond the film itself.



FIND THE RIGHT FILM FOR YOUR APPLICATION

One Film Does Not Fit Every Load

Choosing the right stretch film depends on several factors:

01 – LOAD TYPE

Heavy, medium, or light loads?
Symmetric or irregular pallet?



02 – WRAPPING METHOD

Manual wrapping or automatic wrapping?
Turntable, ring wrapper, or arm wrapper?



03 – FILM THICKNESS

Heavy loads: higher-gauge film

Medium loads: standard 12–15 µm

Light loads: benefit from thinner 8–10 µm



04 – PERFORMANCE REQUIREMENTS

Consider: Stretch level, Puncture resistance, Cling, Load containment, Film stiffness

Required wrapping speed



05 – BUSINESS PRIORITIES

What matters most?

Cost | Performance | Productivity | Sustainability



APPLICATION-FOCUSED SOLUTIONS

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We Help You Find the Right Solution

Every operation is different.

The best film depends on your load, wrapping equipment, wrapping method, required performance, and sustainability targets.

Our team can help customers evaluate their current packaging process and identify opportunities for:

DOWN-GAUGING

Move to thinner film without sacrificing required performance.

SUSTAINABILITY

Reduce plastic consumption and introduce PCR solutions

COST REDUCTION

Optimize film usage and reduce cost per pallet.

LOAD SECURITY

Improve stability during storage and transportation.

PRODUCTIVITY

Improve wrapping efficiency and reduce operator effort.



THE SIGMA DIFFERENCE

Your Packaging. Our Expertise.

When you work with Sigma Plastics Asia, you are not simply purchasing stretch film.
You are gaining a partner focused on improving the way your products are packaged, handled, stored, and transported

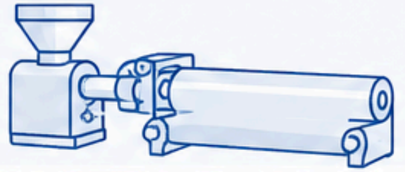
GLOBAL EXPERIENCE

Backed by international stretch film expertise



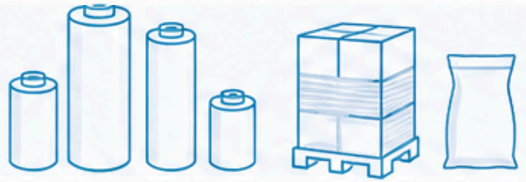
ADVANCED TECHNOLOGY

European co-extrusion and formulation know-how.



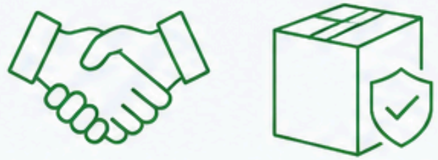
BROAD PRODUCT RANGE

From hand film to machine, pre-stretch, PCR,
PE cling, and specialty solutions.



APPLICATION SUPPORT

Solutions developed around your actual
packaging needs.



SUSTAINABLE OPTIONS

Down-gauging and PCR technologies to reduce
environmental impact.



LET'S WRAP SMARTER

Ready to Improve Your Packaging?

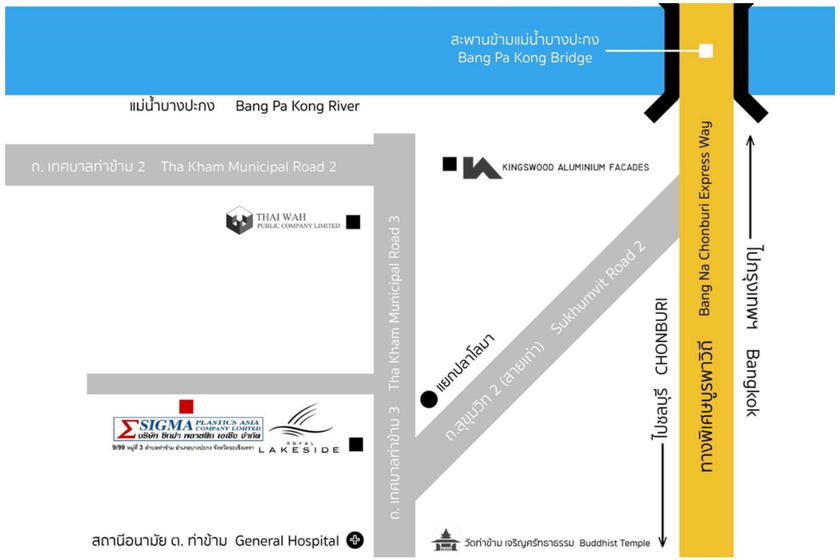
Whether your goal is to:

- Use less plastic
- Improve load stability
- Increase wrapping productivity
- Switch to PCR
- Reduce packaging cost
- Find a better film for your application

Our team can help you identify the right solution

LET'S WORK TOGETHER

Sigma Plastics Asia



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Sigma Plastics Asia Leaflet