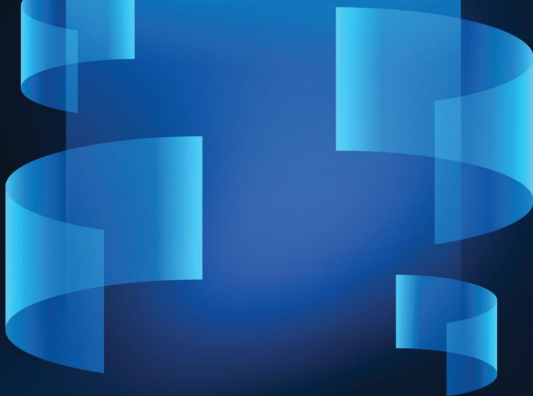


**NOW**  
PLASTICS



**NOW**  
PLASTICS

# Your Global Film and Alu Foil Source We Make Import EASY

UNITED STATES & CANADA  
+40 year

UNITED KINGDOM  
+20 years

LATIN AMERICA & COLUMBIA  
Developing

EUROPE & NORTH AFRICA  
+10 years



## Our Teams & Contacts

We are lucky to have top professionals that make up for our sales staff and sales offices located throughout Europe, the UK, North America, and soon Mexico and Central America

Contact	Location / Title	Phone Number	Email
<b><u>NOW Plastics UK</u></b>			
<b>Territories</b>	United Kingdom & Ireland		
<b>Headquarters</b>	20 St Cuthberts Way, Darlington Co. Durham	+44 1325 520 740	Kwayman@nowplastics.com
<b>Ken Mitchell</b>	Managing Director		kmithcell@nowplastics.com
<b>Dave Nicol</b>	Sales Director		dnicol@nowplastics.com
<b><u>NOW Plastics Europe &amp; N. Africa</u></b>			
<b>Italy</b>	Diversified Trading	+39 333 650 8559	elena.soprani@diversified-trading.it
<b>Iberia</b>	Secopa	+34 670720 959	<a href="mailto:marc.sr@secopa.es">marc.sr@secopa.es</a>
<b>Poland</b>	Andrzej Nosorowski	+48 604 302 398	Anosorowski@bigmail.pl
<b><u>NOW Plastics Americas</u></b>			
<b>USA &amp; Canada</b>	Global Headquarters	+1 413 348 8112	Lsilvers@nowplastics.com



# Our Mission

To please ...

To support ...

To make a difference ...





# 45 YEARS OF HISTORY

Founded by Oded E'dan, Maury N Kats, and Weiss who left soon thereafter. "N.O.W"

1978



1980

Bags > Films (Original USA importers)

March, 1997



Lawrence Silverstein joins as CFO / EVP



June, 2000

Oded E'dan & Lawrence Silverstein buy out Kats family. OE owns 75%, LS 25%. This was the beginning of migration from industrial films to flexible packaging films.

January, 2001



UK office opened. First step in global expansion.



Late 2008

Europe operation started. Italy, and soon after Spain.

Poland & other Europe locations were added

2011



Aluminum foil added to product portfolio.



2012

Overseas operations are 40% of global total. Some business in Northern Africa added.

2016

2017

Mexico, Central & Latin America, Caribbean & Columbia territory expansion. We branched out some business in Chile as well.



# WHAT IS NOW PLASTICS?



**WE**  
**FINANCE**  
YOUR  
BUSINESS



WE SOURCE  
**WORLD CLASS**  
**PRODUCTS**



WE TAKE  
CARE OF  
**LOGISTICS**

***We make import easy!!!***



# WHY SHOULD YOU WORK WITH US ?

- ✓ **CUSTOMIZED SUPPLY CHAIN PROGRAMS**—improve your balance sheet and cash flow. Just-in-time delivery programs (warehouse or consignment). Split payment invoices for low usage items.
- ✓ **MULTIPLICITY OF PRODUCTS AND SOURCES** - Balance global risks and pricing differences.
- ✓ **FULL TRANSPARENCY** – Producers are fully disclosed, and products are sold in their packaging. We sell only what you qualify.
- ✓ **VALUE** – The best combination of quality, price and service.
- ✓ **LOCAL SUPPORT** – The best offshore products while working with a domestic company
- ✓ **LEVERAGE YOUR PEOPLES TIME** – We act as an extension of your sourcing department. With over 45 years of experience, we know most international film producers.
- ✓ **LOGISTICS MANAGEMENT** – We deliver products from all over the world to anywhere in the world. Tracking all open orders.
- ✓ **KNOWLEDGE** – Highly technical sales force; knowledgeable on most substrates, ink, equipment, etc. Able to help converters troubleshoot.
- ✓ **GLOBAL** – Well informed on issues world-wide and we share this knowledge.
- ✓ **STRATEGIC THINKING AND PLANNING** – Long-term planning, offering ideas and strategies.



# HOW WE DEFINE VALUE ...

- ✓ Value is not just buying at a low price – that’s procurement 101. It’s just a starting point. Value is far more complex!
- ✓ Our business model delivers the overall best value – minimizing risks, delivering competitive prices , favorable logistics and financing services for the long term. Servicing some of the biggest converters in the world .
- ✓ We reduce the risks and uncertainties that come with global importation. We create safety stock programs, invoicing in your local currency, favorable terms, and foresee significant changes in the marketplace to fuel your growth.
- ✓ We know the strengths and weaknesses of all our suppliers.
- ✓ We offer Now Plastics guarantee to product performance.
- ✓ We track orders until they deliver and provide regular updates.
- ✓ We open the entire global supply landscape to our converter customers, using vetted factories.
- ✓ We provide a huge positive cash flow by applying just-in-time supply chain mechanics to your benefit.
- ✓ We are an extension of your procurement department – your eyes and ears!
- ✓ We improve your balance sheet, reduce your bank debt and therefore we INCREASE THE VALUE OF YOUR COMPANY.

OUR  
SITES





# GLOBAL & NORTH AMERICAN HEADQUARTERS



## East Longmeadow, MA

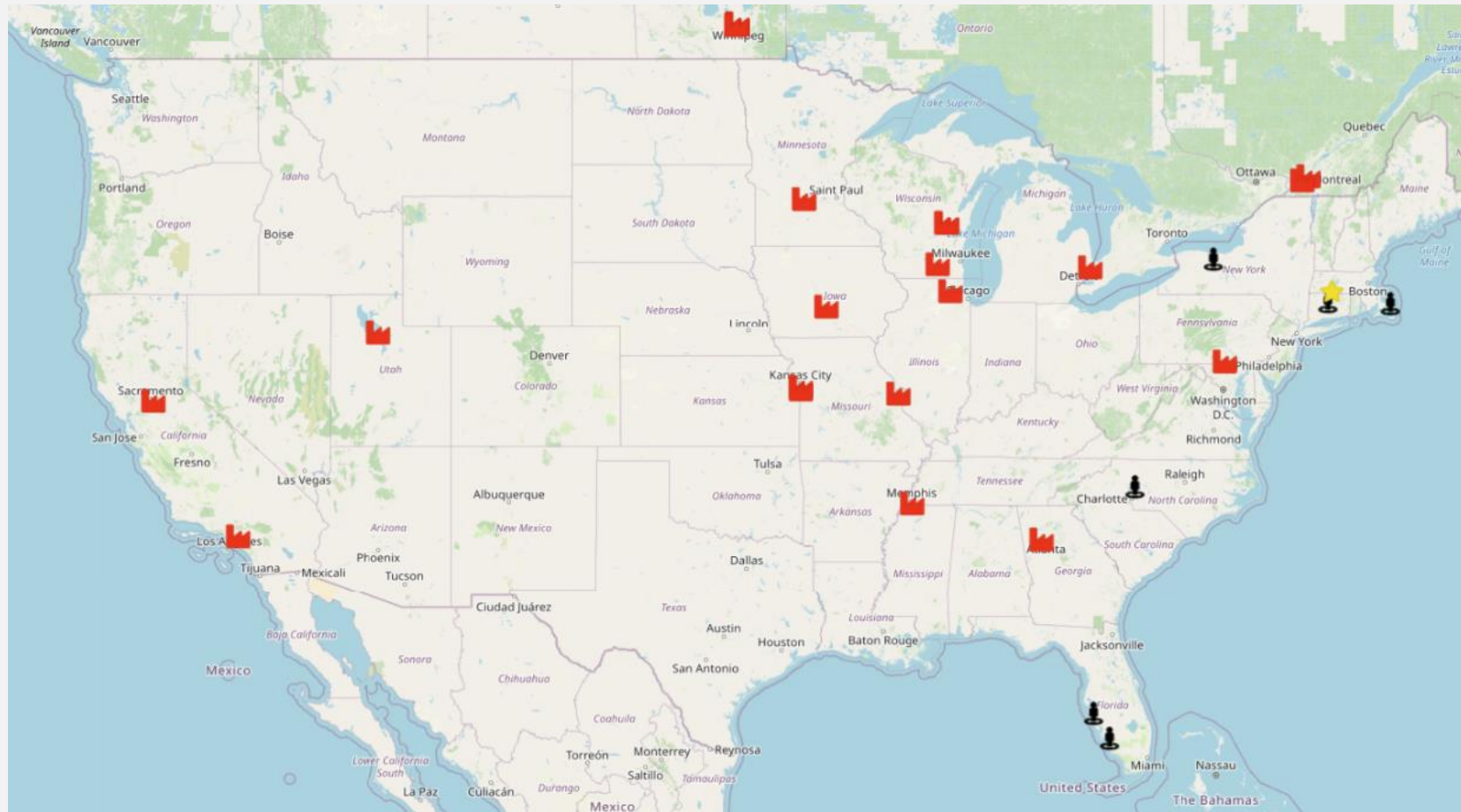
*(90 miles / 150 km west of Boston)*

*(120 miles / 200 km north of NYC)*





# USA & CANADA



★ **Global Headquarters:** East Longmeadow, MA

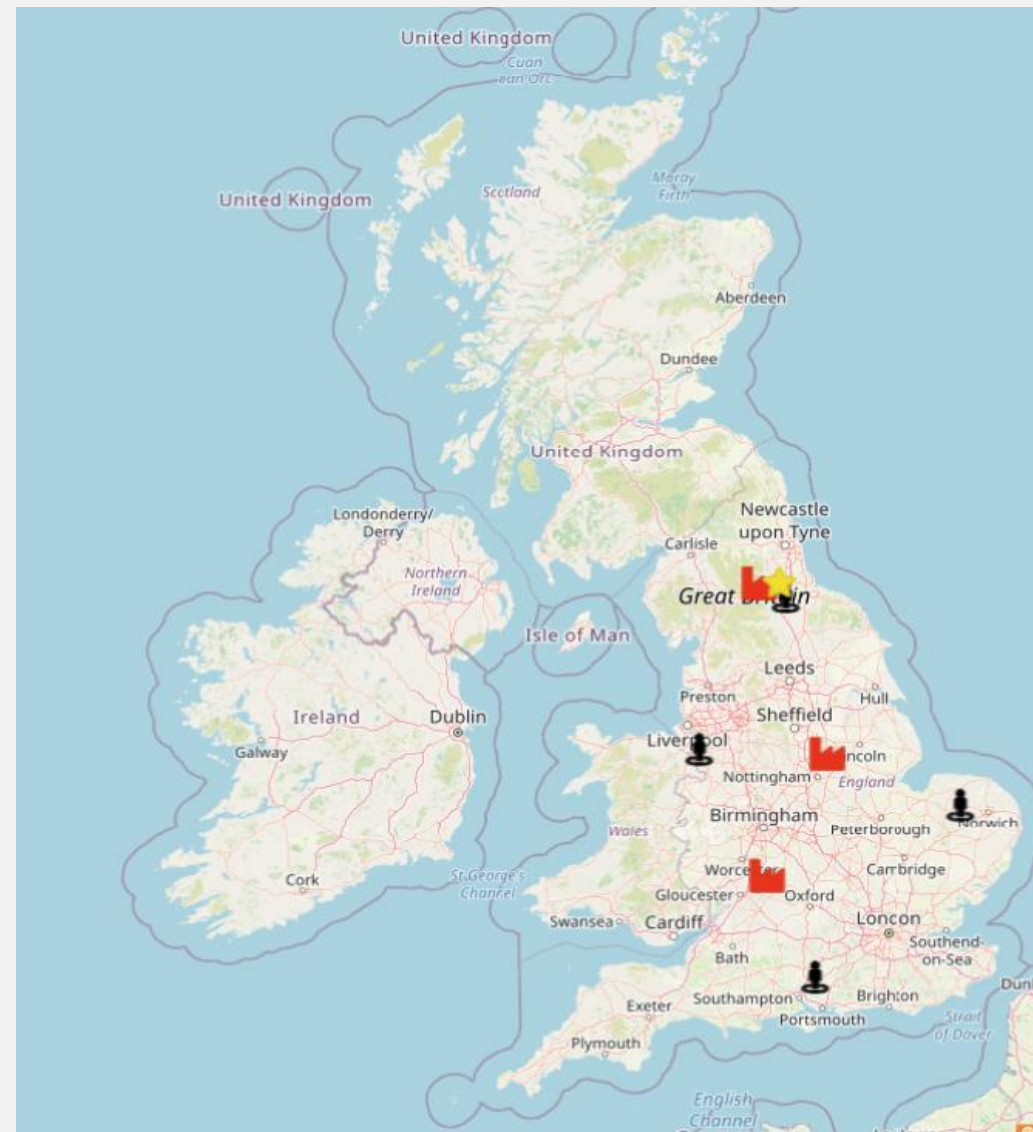
📍 **Sales Offices:** Atlanta, GA; Enfield, CT; Faripoint, NY; Harwich, MA; Estero, FL; Lakewood Ranch, FL

🏠 **Warehouse Locations:** **US Cities, States:** Anaheim, CA; Sacramento, CA; Atlanta, GA; Ankeny, IA; Elgin, IL; St. Clair, MI; Hutchinson, MN; Earth City, MO; Grandview, MO; Kansas City, MO; Hanover, PA; Memphis, TN; Salt Lake City, UT; Fort Atkinson, WI; Menasha, WI; Neenah, WI; Oshkosh, WI

**Canadian Territories:** Winnipeg, MB; Quebec City, QC.



# UK HEADQUARTERS - NORTHEAST, ENGLAND





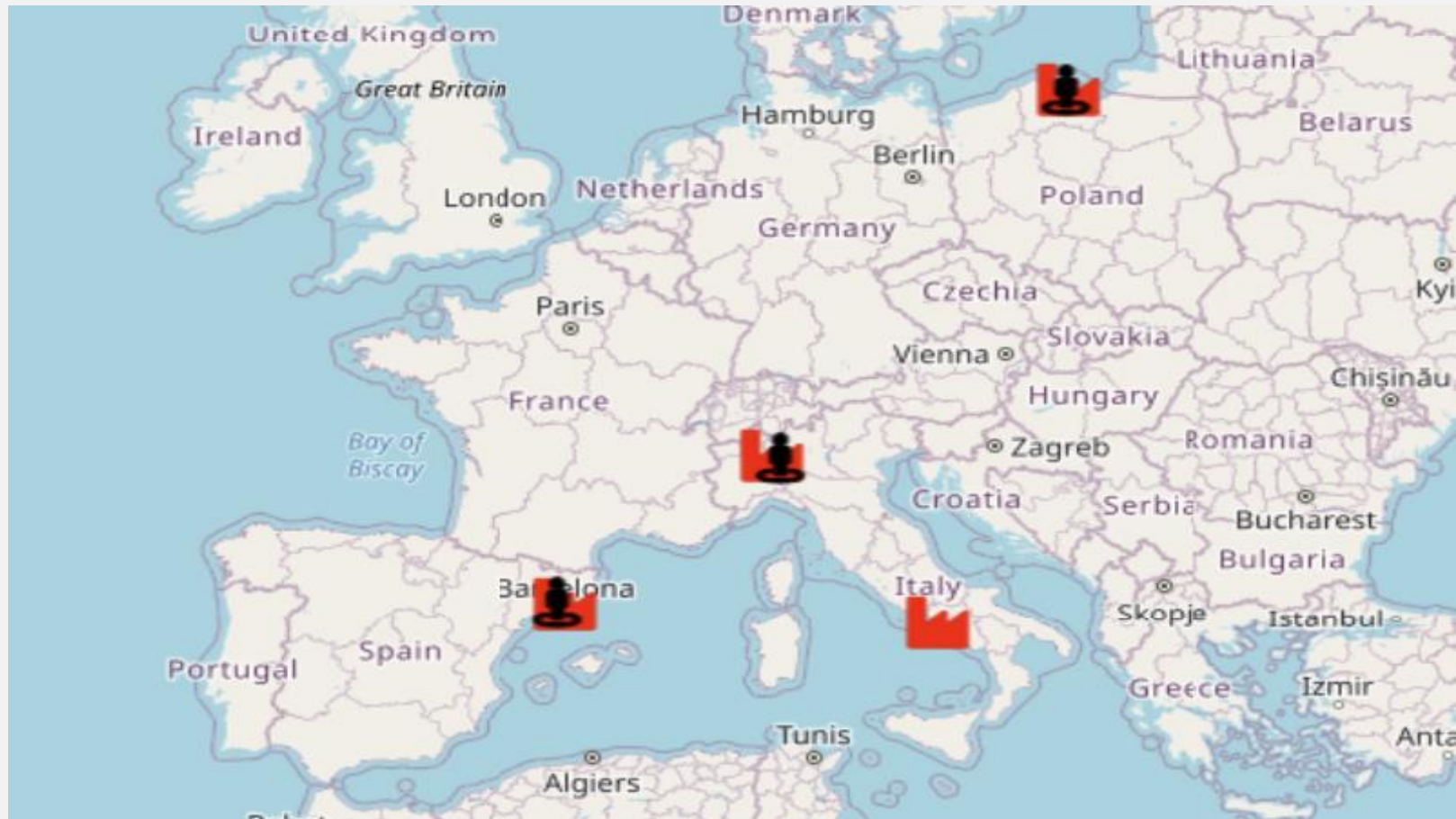
# UK OPERATIONS


Established January 2001

- ✓ BRCGS – AA rated
- ✓ 60 approved & vetted global suppliers
- ✓ Direct container delivery
- ✓ Specific customer stock holding – delivered as required
- ✓ Consignment stock options
- ✓ 5-700mt free stock (BOPP & PET) for next day delivery



# EUROPE



 **Warehouses:** Naples, Italy; Osson, Italy; Gdynia, Poland; Barcelona, Spain

 **Sales offices:**

- Milan, Italy
- Bialystok, Poland
- Barcelona, Spain: Iberia Markets, Barcelona, Madrid, South of France, Portugal

The background of the image is the European Union flag, featuring a blue field with twelve five-pointed gold stars arranged in a circle. The flag is shown waving, with folds and shadows that give it a three-dimensional appearance. The text is overlaid on the upper left portion of the flag.

Meet our  
European Teams!



# OUR ITALIAN TEAM - DIVERSIFIED TRADING

- ✓ Founded in 2006
- ✓ Lainate (near Milano, Italy)
- ✓ Sales model – Agent organization
- ✓ Employees – 5 employees in Sales & customer Service



*We handle areas outside  
of Italy as well*



Italy, Greece and Eastern Europe - Diversified Trading

One of the leading suppliers of polyester (PET), polyamide (BOPA), and aluminum foil (ALU), Diversified Trading has over 15 years' experience in the flexible packaging industry. It is supported by an organized distribution network of local stock and sales organizations, an experienced technical team providing fast support, and partner R&D centers where new products and applications are developed.

Contacts:

**Elena Soprani**, Sales Manager for PET, BOPA, ALU and BOPE Film Tel: +39 333 6508559

**Riccardo Comi**, Sales Manager Tel: +39 3470325322

**Selene Biglietti**, Customer Service Representative – Stock Management Tel: + 39 349 3236592

With inclusion of NP Italy, Diversified Trading likely is the largest film and foil agency organization in Europe.



# SPAIN, PORTUGAL, SOUTH OF FRANCE - SECOPA

A family business for almost 40 years, Secopa has become the leading paper agent consultancy in the Iberian Peninsula, offering the best solutions to its partners and clients, including a variety of paper products for the flexible packaging industry.

With extensive experience in fields that compliment Now Plastics', Secopa represent multiple paper mills and work with many converter customers, some shared with Now Plastics, while others are new.

## Contacts:

Marc Sabaté Rius, Key Account Manager - [marc.sr@secopa.es](mailto:marc.sr@secopa.es)

Susana Juan, Area Sales Manager - Mediterranean area & South of Portugal - [susana.jm@secopa.es](mailto:susana.jm@secopa.es)

Hugo Carrillo Marin, Area Sales Manager - North of Spain & Portugal Email: [hugo.cm@secopa.es](mailto:hugo.cm@secopa.es)





# POLAND

ANPAK

Professional trading company ANPAK has 20 years' experience in supplying convertors with substrates for flexographic and rotogravure printing, and lamination.

Contact:

Andrzej Nosorowski

Email: [anosorowski@bigmail.pl](mailto:anosorowski@bigmail.pl)





# AGAIN .. WHAT IS NOW PLASTICS?



**WE**  
**FINANCE**  
YOUR  
BUSINESS



WE SOURCE  
**WORLD CLASS**  
**PRODUCTS**

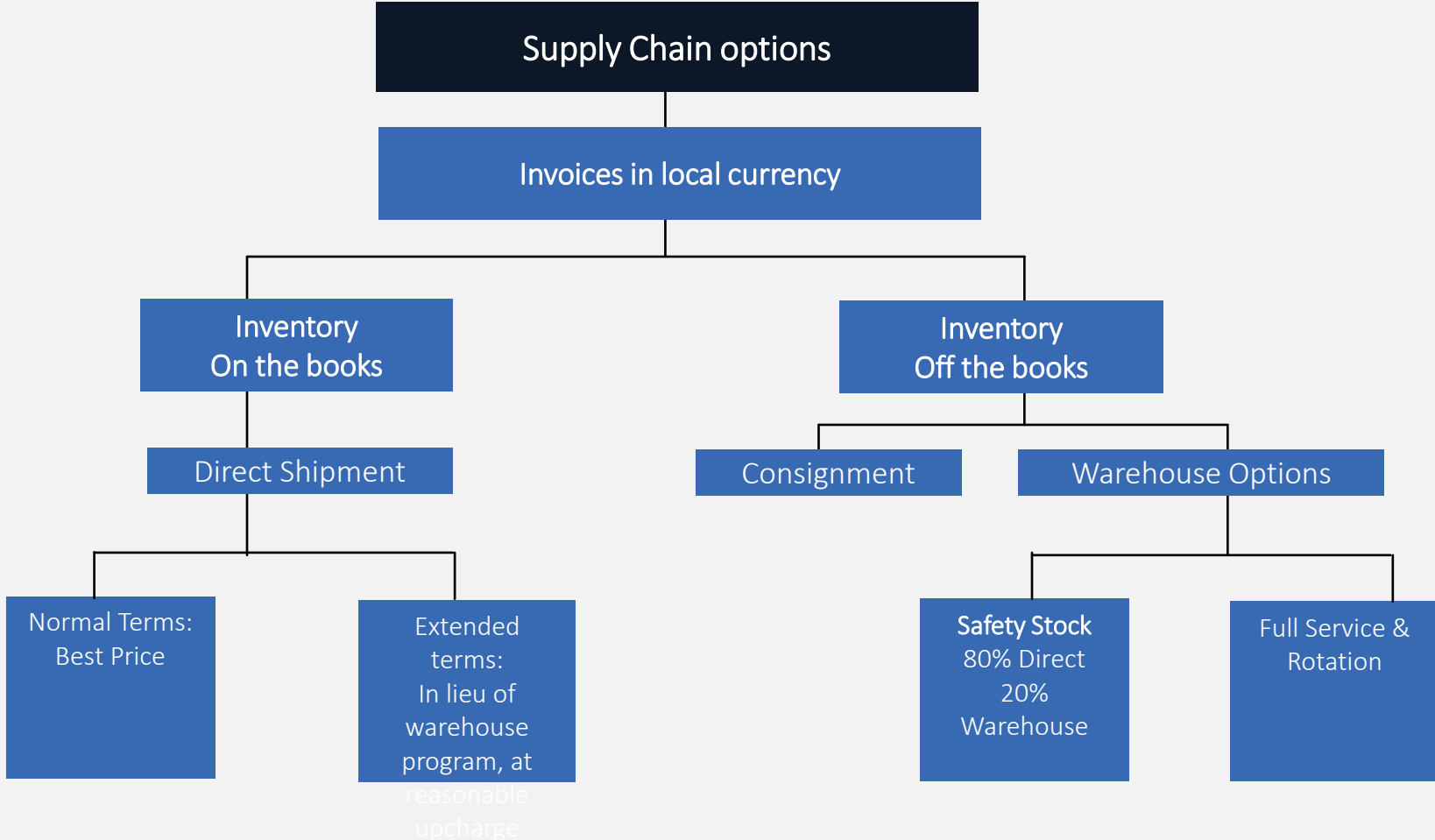


WE TAKE  
CARE OF  
**LOGISTICS**

***We make import easy!!!***



# WE SUPPORT YOUR BUSINESS AND MAXIMIZE YOUR WORKING CAPITAL AND REDUCE BALANCE SHEET DEBT!





# WE MAKE IMPORT EASY





# WE SOURCE WORLD CLASS PRODUCTS





# VETTING OF FACTORIES

All global suppliers used by NP are carefully vetted by the company's management by a combination of personal visits, technical inspections, and careful prior qualification processes. The vetting criteria include:

- ✓ ISO approved
- ✓ Serious Management
- ✓ Technical sophistication
- ✓ Export focus, Western experience  
& service orientation
- ✓ Long term thinking
- ✓ Expansion strategy
- ✓ Financially stable
- ✓ Product Warranties
- ✓ Commercial flexibility
- ✓ Good relations
- ✓ Strengths – utilizing for what we do best
- ✓ Frequent visits – face to face business



# OUR PRODUCTS

PET	BOPP	BOPA	Alu. Foil
PVC	CPA	CPP	Specialty PE
OPS	MOPP / FOPP	Multi-layer	Cellophane

Lidding  
Films

Barrier Films

High Bond  
Films

Label  
Films

NEW RESIN



# PET Film

- ✓ One of the most widely used plastic substrates
- ✓ Versatile and converter friendly – printable & processes easy without large variation from supplier to supplier
- ✓ High thermal stability & mechanical strength
- ✓ Excellent barrier properties
- ✓ Used in more and more complex lamination including retort packaging



# PET FILM

## Clear

FILMS	GUAGE	MICRONS	APPLICATIONS
Untreated	32 to 250	8 to 250	Tape, stationary
Corona Treated	32 to 1000	8 to 250	Laminations, Tape Metallization, Hot Stamping, Holographic, Food and Retort packaging
Chemically Treated	36 to 1000	9 to 250	Laminations, Metallization
Ultra Clear	36 to 200	9 to 50	Decorative, General Packaging, Lamination
Thick Films	200 to 1000	50 to 250	Packaging, Industrial

## Barrier PET

Metallized	32 to 200	8 to 50	General Packaging, balloons, lamination
Ultra Metallized	36 to 92	9 to 23	High barrier applications, foil replacement
PVDC Coated	32 to 92	8 to 23	Laminations
Alox & others	36 to 48	9 to 12	Alox & custom coatings, barrier applications which require transparency

## Heat-Sealable

Standard and Antimony Free	48 to 120	12 to 30	Food packaging, Bags, Laminations
Anti-Fog	48 to 120	12 to 30	Produce Packaging
Matte PET	48 to 200	12 to 50	Security tape, General tape, Lamination, Decorative
Hazy PET	52 to 500	13 to 125	Wire & cable wrapping and insulation
Shrinkable PET	140 to 300	35 to 75	Shrink sleeves for odd shaped bottles
High Bond	40 to 48	10 to 12	Laminations requiring above average to very strong metal bond to film



# PET FILMS FEATURES

- ✓ **Haze** – Available under 1% and up, depending on the grade.
- ✓ **Corona Treatment** – Generally on one side but available on both sides or without treatment on certain grades.
- ✓ **Cores** – Either 3” or 6”
- ✓ **Widths** – Minimum of .5” , Maximum of 90”
- ✓ **Minimum OD’s or footage** – Rolls can be produced as low as 1,000 meter length
- ✓ **Maximum OD’s or footage** – Varies per producer, capabilities of reaching 36” (120,000 feet at 48 gauge thickness)
- ✓ **Packaging** – Horizontal or Vertical packaging. Small rolls can be specifically boxed.



# BOPP FILMS

- ✓ One of the most widely used plastic substrates
- ✓ Our suppliers are all ISO 9001 and many have additional certifications like ISO 14000, ISO 18000, ISO 22000, BRC / IOP, etc.
- ✓ We carry all grades for simple to complex applications and uses.



# BOPP FILMS

## CLEAR

FILMS	GAUGE	MICRONS	APPLICATIONS
Non Heat sealable	.5 to 3.0	12 to 75	Tape, floral, labels, stationary, overlam, insulation, metallizing, etc.
Heat sealable (1-2 sides)	.5 to 2.0	15 to 50	Over wrap, form/fill/seal, bakery, printing, lamination, metallizing, etc.

## MATTE

Non Heat sealable	.5 to 2.0	12 to 50	Tape, floral, overlam, labels, etc.
Heat sealable (1-2 sides)	.6 to 2.0	15 to 50	Overlam, lamination, over wrap, printing, metallizing, etc.

## METALLIZED

Non Heat sealable	.6 to 2.0	15 to 50	Printing, lamination, floral, etc.
Heat sealable (1-2 sides)	.5 to 2.0	15 to 50	Printing, lamination, over wrap, bakery, etc.
Acrylic one side	.8 to 2.0	20 to 50	Moderate aroma barrier applications.



# BOPP FILMS CONTINUED ..

## Acrylic & PVDC Films

Acrylic one side	.8 to 2.0	20 to 50	Moderate aroma barrier applications
Acrylic two sides	.8 to 2.0	20 to 50	High aroma barrier applications
Acrylic / PVDC	.8 to 2.0	20 to 50	Aroma and oxygen barrier applications
PVDC one side	.8 to 2.0	20 to 50	Moderate oxygen barrier applications
PVDC two side	.8 to 2.0	20 to 50	High oxygen barrier applications

## Produce films

Anti-fog	.8 to 1.6	20 to 40	Spinach & other refrigerated vegetables
High oxygen	.6 to 1.6	15 to 40	Most vegetables where high oxygen transmission is required ; 250-300% of normal BOPP
Perforated	.8 to 2.0	20 to 50	Various perforations per square in. available

## White Films (Cavitated & Solid)

Non-Heat sealable	1.0 to 2.0	25 to 50	Tape, labels, base stock for printing
Heat sealable	1.0 to 2.0	20 to 50	Tape, labels, base stock for printing
Acrylic / PVDC Coated	1.2 to 2.0	30 to 50	Spices, aroma products



# BOPP FILM FEATURES

- ✓ Alloys: 1000's, 3000's, 8000's
- ✓ Widths: 150 mm – 2,000 mm
- ✓ O.D.: 600 mm – 800 mm
- ✓ Types: Lamination grade, lidding stocks, container foil, fin stock, etc.
- ✓ Appearance: One side bright, one side matte
- ✓ Wettability: A or A/B
- ✓ Order Quantities: As small as one ton per size
- ✓ Chinese and Non-Chinese origin options
- ✓ Heat-seal Lacquer available
- ✓ Pre-laminate strictures available



# ALUMINUM FOIL

- ✓ Alloys: 1000's, 3000's, 8000's
- ✓ Widths: 150 mm – 2,000 mm
- ✓ O.D.: 600 mm – 800 mm
- ✓ Types: Lamination grade, lidding stocks, container foil, fin stock, etc.
- ✓ Appearance: One side bright, one side matte
- ✓ Wettability: A or A/B
- ✓ Order Quantities: As small as one ton per size
- ✓ Chinese and Non-Chinese origin options
- ✓ Heat-seal Lacquer available
- ✓ Pre-laminate strictures available



# BOPA (NYLON) FILMS

- ✓ The use of Nylon films continues to grow in order to improve barrier and other features like
- ✓ puncture resistance on the variety of packaging options available today.

## Applications

- ✓ Laminations – with other films and foil      -Packaging for medical supplies      -Balloons
- ✓ Frozen food packaging                              -Meat                              -Electrical parts
- ✓ Vacuum and gas flushed packaging              -Cheese                              -Aircraft parts
- ✓ Liquid and viscous foods                              -Bag in box                              -Stand up pouches
- ✓ Packaging for chemical and agricultural goods -Pharma                              -Electronics



# BOPA (NYLON) FILMS CONTINUED ..

## Production methods:

We offer films produced by all productions methods, including LISIM technologies:

- ✓ **Blown double bubble** – balanced properties ; gauge profile varies more
- ✓ **Extrusion** – tenter frame:
- ✓ **Sequential** – good cross-web profile, better economics, lower cost
- ✓ **Simultaneous** – superior cross-web profile, less curvature, balanced properties
- ✓ **Linear Simultaneous (LISIM)** – best of all features, state of art technology, great cross-web profile and no curvature issues. Used for high speed printing.



# BOPA (NYLON) FILMS CONTINUED ..

## Features:

- ✓ **Excellent mechanical strength** - Easy for coating, metallizing and laminations
- ✓ **Minimized thickness** - Acid and alkaline resistance
- ✓ **deviations (tender frame versions)**- Standard and enhanced barrier options
- ✓ **High gas barrier** - High impact / puncture resistance
- ✓ **Excellent chemical resistance** - Oxygen & odor barriers
- ✓ **Retortable option** - High transparency
- ✓ **High speed printing film option** - Adaptability to temperature extremes (-60C to 150C)



# CPA (CAST NYLON FILMS)

- ✓ **Gauges** – 75 gauge (19 micron) to 280 gauge (70 micron)
- ✓ **Excellent barrier for oxygen and aroma**
- ✓ **Superior puncture resistance**
- ✓ **Thermoformable**
- ✓ **Used in lamination with PE films**
- ✓ **Typical applications: packaging for cheeses, sausages, fish, nuts, & liquids where impact resistance is needed.**



# SPECIALTY FILMS

## Barrier

- ✓ Alox PET
- ✓ Ultra MET PET
- ✓ BOPA / Nylon with EVOH
- ✓ Ultra Clear PET (better than Toppan, nano-coated)
- ✓ PVDC replacements
- ✓ EVOH replacement
- ✓ ALOX replacements

## Packaging enhancements

- ✓ Soft-touch PET with low gloss
- ✓ Lidding – Recloseable / peelable
- ✓ Matte PET – bopp-like look
- ✓ High COF PET – bag stacking, non-slip
- ✓ Higher OTR PET – produce packaging
- ✓ Easy Tear PE – for pouches
- ✓ High bond MET PET – various up to 1000g bond strength
- ✓ Retortable – PET, BOPA, MET PET
- ✓ Heat sealable PET – with/without anti-fog



# CELLOPHANE FILMS

- ✓ Cellophane has regained some popularity due to it being a product made from wood pulp, hence it is a renewable resource.
- ✓ Cellophane has advantages over some films such as breathability, twistability, high clarity, and other features.
- ✓ We are now able to offer our customers some alternatives to the near monopoly of Futurama (formerly Innovia), Nature and Flex products.



# CELLOPHANE PRODUCTS

Item	Commodity	Substance	Regular Size	Application
PT-PB	PT Sheet Cellulose Film	23-60GSM	850mmX1000mm 500mmX750mm 20''X30'' 30''X40'' 450mmX1000mm etc.	Food stuff, medicines, tea, battery, cigarettes & tobacco, flowers, candles, mah-jong, candy
PT-XJ	PT Roll Cellulose Film	30GSM-50GSM	100mm-1800mm LENGTH:2000M-4000m	Sausage, Ham, Meat, Cheese, Food stuff (PT400, PT450 with high slipness)
PT-YS	Cellulose Film for printing	30GSM	Width: 200mm-900mm Length: 4000m	Good printable and lamination property, for medicine packing.
PUT-JD	Cellulose Film for adhesive tape (PUT40-50GSM)	40-50GSM	Width: Net width plus together between 1500-1650m Length: 2000m-5000m	Adhesive tape (Easy tearing)
PT-CS	Color Cellophane Red, yellow, blue, green, pink, orange, purple, brown, etc.	22-30GSM	Width: Net width plus together between 1700-1800mm.	Wrap firecracker, Joss stick, Food, etc.
Coated	MST / PVDC Cellulose film	32+2 58+2GSM	Width: Less 1550mm Length: 2000m-4000m	Moisture-proof, and heatsealing property for medicine, etc.
PT-ZG	Small PT roll cellophane	30-50GSM	Width: 12.5mm, 16mm, 18mm, 20mm, 112mm, 114mm, etc. Length: 1000m-4000m	For silicon hose, fishing rod, core board.



# LIDDING FILMS

## **Reclosable – PET / multi-layer PE Coex**

- ✓ Up to 10 open & close cycles
- ✓ Seals to: ADET, CPET, RPET trays
- ✓ Meets FDA & EC regulations

## **Peelable – Coated & multi-layer coex versions**

- ✓ Seals to: CPET, APET, RPET, PVC, PP trays
- ✓ Easy peel with broad seal range
- ✓ Oven able up to 400 degrees F for 30 mins
  
- ✓ **Anti-fog**



# BARRIER FILMS

TYPE	LEVEL	OTR cc/sq.m	WVTR cc/sq. m
<b>ALOX PET</b> clear film, top coated	Ultra	.01	0.5
<b>MET PET</b> high bond up to 1000g	Very high	0.4	0.3
<b>MET PET</b> potential alum. foil replacement	Ultra	0.3	0.2
<b>MET BOPP</b> high seal strength w/ EVOH	Very high	0.3	0.5
<b>Met BOPP</b> w/ EVOH layer	Ultra	0.2	0.2



# NOW PLASTICS CAN HELP MEET YOUR BARRIER NEEDS!

Oxygen, Moisture, Oils, Chemical barriers

Clear, Metalized, Opaque

Suitable for both adhesive & PEX

Inner, mid-ply, or outside webs

Solutions with: PET, BOPP, Alu Foil, Cast Nylon



# ULTRA HIGH BARRIER FILMS

Film type	Descriptions	Gauges	Microns	OTR Metric
PET	Clear Polyester – Proprietary coating	36 to 92	9 to 23	
MET PET	Metallized Polyester – Proprietary	36 to 92	9 to 23	
ALOX PET	Aluminum Oxide – Top coated	36 to 92	9 to 23	
MET PET	Metallized Polyester – 2.8 to 4.0 OD	32 to 92	8 to 23	
PET	Clear-Oolyester – Nano coated to replace Alox	48	12	
ALU FOIL	Alu Foil	25 to 200	6 to 50	
BOPP	Metallize Polypropylene with EVOH	80 to 160	20 to 40	



# VERY HIGH BARRIER FILMS

Film type	Descriptions	Gauges	Microns	OTR Metric
PET	Clear Polyester – Nano coated to replace PVDC structures	48	12	
PET	Clear Polyestet – Nano coated to repalce EVOH structures	48	12	
MET PET	Metallized Polyester – 2.4 to 2.8 OD	32 to 92	8 to 23	
Co-Extrusion	Multi-layer up to 18 layers	80 to 200	20 to 50	
BOPA	BIAX Nylon with EVOH layer	48 to 100	12 to 25	



# HIGH BARRIER FILMS

Film type	Descriptions	Gauges	Microns	OTR Metric
ALOX PET	Aluminum Oxide – No topcoat	36 to 92	9 to 23	
MET PET	Metallized Polyester – 1.8 to 2.2 OD	32 to 200	8 to 50	
CO-EXTRUSION	Multi-layer up to 5 layers	80 to 200	20 to 50	
CO-EXTRUSION	PE/EVOH/PE	120 to 240	30 to 60	
CO-EXTRUSION	PE/EVOH/PA	120 to 240	30 to 60	
BOPP	Metallized Polypropylene	60 to 160	15 to 40	
BOPA	BIAX Nylon	48 to 100	12 to 25	
PVDC PET	PVDC Coated Polyester	32 to 92	8 to 23	
PVDC BOPP	PVDC Coated BOPP (1 or 2 sides)	80 to 160	20 to 40	



# HIGH BOND PRODUCTS

As flexible packaging complexities increase, the need for higher performance films is arising. One key area is to provide improved bonds thereby decreasing the risks of product destruct.

## High Bond products

**BOPA** – with chemical treatment 12/15/25 micron, offering improved lamination bond strength.

**PET** – High corona (typically 56 to 58 dyne) 10 to 50 micron, offering improved ink adhesion

**PET** – chemically treated:

**Acrylic** 10 to 200 micron, improved ink adhesion

**Copolyester** 10 to 200 micron, improved ink and / or lamination bond

\*strength up to 800 grams

**PU** 10 to 50 micron, superior ink and / or lamination bond

\*strengths typically 800 to 1000 grams

## Metallized PET –

**Plasma** Cleans surface of defects

**Copolyester** Improved bonds of metal to film, different products

\*ranging from 400 grams to 1000 grams

**BOPP – flame treatment** Longer period where film can be used for printing, laminating, & coating



# LABEL FILMS

We are pleased to offer a variety of films to meet the needs of our customers in this industry

## *Types:*

<b>Substrate</b>	<b>Thickness Range</b>	
Roll fed	BOPP	25 to 50 micron
Cut and stack	BOPP	30 to 60 micron
Clear face stock	BOPP	30 to 70 micron
In-mould	BOPP	50 to 60 micron

## **Shrink Labels:**

Low shrink	BOPP	18 to 30 micron
Medium TD Shrink (to 57%)	PET, PVC, OPS	40 to 75 micron
High shrink (to 62%)	PET, PVC, OPS	40 to 75 micron
Very high shrink (to 67%)	PET, PVC, OPS	40 to 75 micron
Ultra high shrink (to 75%)	PET, OPS	40 to 75 micron

## **Other types of labels:**

Tags	MOPP, FOPP	30 to 125 micron
Pressure sensitive	BOPP	30 to 70 micron
MD orientation	PVC	25 to 40 micron
MOPP		
Release liner	PET	10 to 75 micron



# RESIN

## PA6 Film-Grade Resin

Utilizing cutting edge technology and the most advanced equipment, our PA6 film grade resin is sourced from a leading supplier, for BOPA, Cast Nylon, and multi-layer film producers. Ensuring rigorous controls at each stage of production:

**Low moisture content | Low extractable content | No black/yellow chips.**



**Available Film Grade\*:** SM33 = rv.3.23 | SM36 = rv.3.60

- Casting. Biaxial Stretching. Multi-layer
- Coextrusion and other processing methods
- High mechanical strength and thermal stability
- Excellent gas barrier properties
- Used for flexible packaging for food and medicines