

DY Incredible STRAP™ -

The Incredible Solution to every Packaging



AAR 41
ASSOCIATION OF
AMERICAN RAILROADS



DAE YANG STRAPS

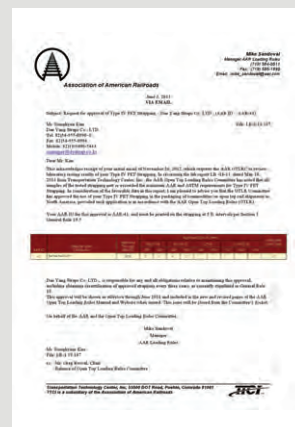




Company Profile

History

- 1998. May _ Established "DAE YANG STRAPS" in Daegu city
- 1999. Feb _ Obtained BS/EN/ISO9002 : 2008 certificate
- 2001. Feb _ Started exporting to USA, EU, Australia and South America
- 2001. May _ Being Appointed as 'promising exporting firm' by government
- 2002. Jun _ Registered utility model rights
- 2002. Jun _ No. 0280417 POLYESTER STRAP(BAND) Heating oven
- 2002. Jun _ No. 0280416 POLYESTER STRAP(BAND) Embossing equipment
- 2002. Jun _ No. 0279307 POLYESTER STRAP(BAND) Extruder head
- 2003. Dec _ Made conversion of corporation
- 2006. Dec _ Moved a larger facility located in Goryeong-Gun
- 2007. Feb _ Established sales office and logistics center for steel industry
- 2012. Feb _ Increase manufacturing line
- 2013. Jun _ Obtained AAR(Association of American Railroad) certificate



Brief Instruction

Product	PET Strapping DY Incredible STRAP™ - GP, HD, AAR, TX
Dimension	Width - 9.00mm ~ 32.00mm Thickness - 0.50mm ~ 1.27mm Color - Green, Black(Standard), Yellow, White, Transparent
Capacity	600MT / Month



DAE YANG STRAPS CO.,LTD.

Greetings from CEO

DAE YANG STRAPS has been the largest PET strapping manufacturer in South Korea since 1998. We are committed to delivery to you the best quality product with the best service.

Since our establishment in 1998, we have been consistently pursuing '3-B Movement' (Best quality, Best service, Best price) as our core business strategy.

As a result of constant 3-B movement, we became the largest PET strapping manufacturer in Korea. Furthermore, we are getting close to one of the best PET strapping manufacturer in the world.

We will never be satisfied with current result but will try continuous improvement in order to deliver the best value to our valued customers.



Yours faithfully
HyekTae Kim
CEO of DAE YANG

A handwritten signature in black ink, appearing to read 'HyekTae Kim', is written over a faint background of a globe.

DAE YANG STRAPS

DY Incredible STRAP™ - The Incredible Solution to every Packaging



About PET Strap

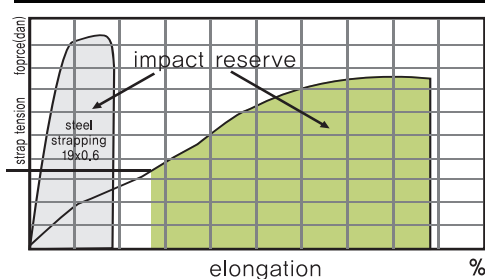
Polyester(PET) strap is an innovative strap which strengthen the strength of Steel strap and PP strap and make up for weakness of steel strap and PP strap. Especially, PET strap is incredibly useful as substitute for steel strap. PET strap is applicable widely to pack all industrial goods including a heavy and bulky goods like steel, paper, fiber bale, can, bottle, stone, brick and electrical appliance.

ADVANTAGE OF PET STRAP

Shock Resistance

When it's damaged, it cannot easily split due to its elongation. Due to its combination of elasticity and strength, it will not loosen.

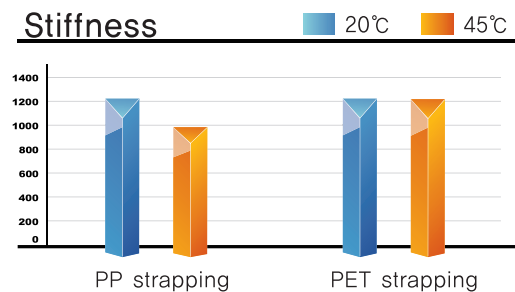
IMPACT RESERVE



Heat Resistance

suitable for workplace with high temperature
Good for steel pipe, plastic sheet and something hot packaging

Stiffness



Anti-Rust

No rust(do not affect product due to rust)
Resistance to Ultra violet.



Safety

Smooth edge which assures worker's safety while handling material or packing. No Popping which assures worker's safety during unpacking.



Eco-Friendly

Can be recycled easily
Save CO2 when it's recycled.
Produce less than 0.03% of ash



Cost Efficiency

Economical product prices than any other strapping
Save storage cost
Save transportation cost due to light weight
Improve productivity



Superiority of DAE YANG STRAP

Raw Material

Use prime raw material(virgin and rPET)
Strict quality control from raw material phase.
Prime additives(preventing splitting problem and improving joint strength)

Know-How

Started PET related business since 1985
Accumulated know-how.
Specialized in PET strapping since establishment in 1998
No. 1 domestic market share

Production Facility

Adopted European facilities and technologies
Efficient manufacturing with automatic line

Full Support

Strict control system for delivery date(deadline)
Technical support regarding strapping packaging)

Quality

High tensile strength : 44~45kgf / mm²
High joint strength : above 90%
No splitting
Can be used for every automatic machine including Signode[®] Head
Strict quality control with cutting-edge equipment :
IV Test, Tensile strength Test, Slip Test,
Joint Strength Test, Curving Test, Splitting Test

支援 Support

Better
Quality
品質

Accumulated
Know-How
技術

Customized
Facility
生産設備

Controlled **Raw Material** 原材料



Product Range

PET Strap - DY Incredible™ - Heavy Duty

Features

- ▶ DY Incredible STRAP™ –Heavy Duty replaces steel strapping which is used for Steel sheet, coil, pipe, aluminum ingot, timber industry and polyester fiber industry packaging.
- ▶ Mainly made up with industrial grade PET resin
- ▶ Minimum joint strength is 90%
- Highest remaining holding force
- Splitting resistance
- Strict tolerance of size: Fully automatic line use
- Perfect shock elasticity
- Better productivity: low dropout rate
- 100% Made in Korea with European facility



Heavy Duty

Width		Thickness		Tensiel Strength(KGF)		Core (mm)	Elongation (%)
mm	inch	mm	inch	Kfg	LBS		
9.00	1/3	0.50	0.020	190	419	406	14±2
10.50	2/5	0.68	0.027	300	661	406	14±2
11.50	4/9	0.52	0.020	250	551	406	14±2
12.00	1/2	0.50	0.020	260	573	406	14±2
12.00	1/2	0.60	0.024	315	694	406	14±2
14.00	5/9	0.60	0.024	370	816	406	14±2
15.90	5/8	0.90	0.035	630	1,389	406	14±2
15.90	5/8	1.00	0.040	700	1,543	406	14±2
19.00	3/4	1.00	0.040	835	1,841	406	14±2
19.00	3/4	1.00	0.040	1,060	2,337	406	14±2
25.00	1	1.00	0.040	1,100	2,425	406	14±2
25.00	1	1.27	0.050	1,350	2,976	406	14±2
32.00	1 1/4	1.27	0.050	1130	2,491	406	14±2

OPAQUE GREEN, BLACK ARE STANDARD COLOR, AVAILABLE UPON REQUEST

STANDARD NET WEIGHT 1S 20KG PER A COIL. ANY SIZE OF STRAPPING AVAILABLE UPON REQUEST

Product Range

PET Strap - DY Incredible™ - General Purpose

Features

- ▶ DY Incredible STRAP™ – General Purpose replaces PP strapping which is used for CAN, bottle, paper and logistics industry.
- ▶ Mainly made up with of bottle grade PET resin
- ▶ Minimum joint strength is 90%
- Highest remaining holding force
- Splitting resistance
- Strict tolerance of size: Fully automatic line use
- Perfect shock elasticity
- Better productivity: low dropout rate
- 100% Made in Korea with European facility



General Purpose

Width		Thickness		Tensiel Strength(KGF)		Core (mm)	Elongation (%)
mm	inch	mm	inch	Kfg	LBS		
9.00	1/3	0.50	0.020	170	375	406	14±2
10.50	2/5	0.68	0.027	280	620	406	14±2
11.50	4/9	0.52	0.020	235	518	406	14±2
12.00	1/2	0.50	0.020	230	510	406	14±2
12.00	1/2	0.60	0.024	290	640	406	14±2
14.00	5/9	0.60	0.024	335	740	406	14±2
15.90	5/8	0.90	0.035	575	1270	406	14±2
15.90	5/8	1.00	0.040	640	1410	406	14±2
19.00	3/4	1.00	0.040	780	1720	406	14±2

OPAQUE GREEN, BLACK ARE STANDARD COLOR, AVAILABLE UPON REQUEST

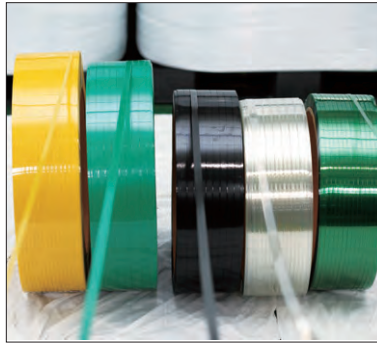
STANDARD NET WEIGHT 1S 20KG PER A COIL. ANY SIZE OF STRAPPING AVAILABLE UPON REQUEST

Product Range

PET Strap - DY Incredible™ - AAR

Features

- ▶ DY Incredible STRAP™ –AAR is got certified by AAR(Association of American Railroad). It is manufactured according to strict ASTM standard.
- ▶ DAE YANG STRAPS is the only one PET strapping manufacturer in Korea who has certificate for four different sizes
 - Highest remaining holding force
 - Splitting resistance
 - Strict tolerance of size: Fully automatic line use
 - Perfect shock elasticity
 - Better productivity: low dropout rate
 - 100% Made in Korea with European facility



AAR

Width		Thickness		Tensiel Strength(KGF)		Core (mm)	Elongation (%)
mm	inch	mm	inch	Kfg	LBS		
15.90	5/8	0.90	0.035	630	1,389	406	14±2
15.90	5/8	1.00	0.040	700	1,543	406	14±2
19.00	3/4	1.00	0.040	835	1,841	406	14±2
19.00	3/4	1.27	0.050	1,060	2,337	406	14±2

OPAQUE GREEN, BLACK ARE STANDARD COLOR, AVAILABLE UPON REQUEST

STANDARD NET WEIGHT 1S 20KG PER A COIL. ANY SIZE OF STRAPPING AVAILABLE UPON REQUEST

Product Range

PET Strap - DY Incredible™ - TX

Features

- ▶ DY Incredible STRAP™ -TX is PET strapping for Signode®'s automatic packaging machine head.
- ▶ Precise size tolerance control and very smooth surface make it possible to use it with Signode® Head without any modification.
- ▶ It can replace slitting strapping
 - Highest remaining holding force
 - Splitting resistance
 - Strict tolerance of size: Fully automatic line use
 - Perfect shock elasticity
 - Better productivity: low dropout rate
 - 100% Made in Korea with European facility



TX

Width		Thickness		Tensiel Strength(KGF)		Core (mm)	Elongation (%)	Signode® Tenax® Model No.
mm	inch	mm	inch	Kfg	LBS			
12.70	1/2	0.71	0.028	360	794	406	14±2	1822
15.60	3/5	0.76	0.030	500	1,102	406	14±2	2030
14.00	5/8	0.90	0.035	630	1,389	406	14±2	2040
15.90	5/8	1.00	0.040	680	1,499	406	14±2	2080
15.90	3/4	0.09	0.035	750	1,653	406	14±2	2220
19.00	3/4	1.00	0.040	830	1,830	406	14±2	2220
19.00	3/4	1.27	0.050	1,060	2,337	406	14±2	2225
25.00	1	1.00	0.040	1,100	2,425	406	14±2	2480

OPAQUE GREEN, BLACK ARE STANDARD COLOR, AVAILABLE UPON REQUEST

STANDARD NET WEIGHT 1S 20KG PER A COIL. ANY SIZE OF STRAPPING AVAILABLE UPON REQUEST

Product Range

TOOLS

BATTERY TOOL

- ▶ Combination tools function as tensioners, sealers and cutters.
- ▶ Battery tool is recommended for work place where a worker needs to move frequently.

▶ Feature

1. Reduce packing cost more than 15% & improve the combining intensity 2 times, increase safety coefficient paid to transport effectively.
2. Improve packing without the metal buckle and get rid of the problems such as scratch, impression and so on.
3. Works normally under a large number of dust, short fiber and other abominable environments with the exceptive dust-proof filter screen



BATTERY TOOL	
JOINT TYPE	FRICTION WELDING
JOINT EFFICIENCY	80%
SHAPE OF MATERIAL	FLAT / ROUND
STRAP WIDTH	10mm ~ 19mm
STRAP THICKNESS	0.5mm ~ 1.0mm
TENSION FORCE	2,000N ~ 4,000N
WEIGHT	3.8Kg

PNEUMATIC TOOL

- ▶ Combination tools function as tensioners, sealers and cutters.
- ▶ Pneumatic friction sealing tool is ideally suited for heavy industrial strapping applications and is particularly suitable for continuous operation under the most demanding conditions.

▶ Feature

1. Reduce packing cost more than 15% & improve the combining intensity 2 times, increase safety coefficient paid to transport effectively.
2. Improve packing without the metal buckle and get rid of the problems such as scratch, impression and so on.
3. Works normally under a large number of dust, short fiber and other abominable environments with the exceptive dust-proof filter screen



PNEUMATIC TOOL	
JOINT TYPE	FRICTION WELDING
SHAPE OF MATERIAL	FLAT
STRAP WIDTH	10mm ~ 32mm
STRAP THICKNESS	0.4mm ~ 1.27mm
TENSION FORCE	2,500N ~ 5,500N
WEIGHT	4.9 ~ 5.5Kg

MANUAL TOOL SET

- ▶ This tools are recommended for the factory doesn't use a lot of strapping.
- ▶ It consists of tensioner and sealer which works with seal.

▶ Feature

1. suitable for various kind of PET & PP strap
2. easy to operate and finish the tighten, sticking and cutting for one time
3. have a strong tighten and reach 2,800N at most
4. With the simply structure ensuring low malfunction rate





DAE YANG STRAPS

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Application

Metal Industry

Feature

- ▶ Smooth surface(no scratch on the product)
- ▶ Easy to handle,
- ▶ No rust
- ▶ Better productivity with automatic line
- ▶ Proper elongation rate assures NOT loose bind strapping.

Application

- ▶ Steel coil, sheet, pipe, aluminum ingot and ETC

Metal Industry

Width		Thickness		Surface	Tensiel Strength(KGF)		Elongation
mm	inch	mm	inch		Kfg	LBS	
19.00	3/4	1	0.040	SMOOTH	840	406	12±2
19.00	3/4	1.27	0.050	SMOOTH	1,060	406	12±2
25.00	1.00	1	0.040	SMOOTH	1,100	406	12±2
25.00	1.00	1.27	0.050	SMOOTH	1,400	406	12±2
32.00	1	1	0.040	EMBOSED	1,280	406	12±2
32.00	1	1	0.040	SMOOTH	1,400	406	12±2

Standard color : Opaque Green, Black
Every color is available upon request

Joint Strength Above 90%



Application

FIBER Industry

Feature

- ▶ Aside from normal PET strapping's advantage, we manufacture PET strapping with high tensile strength and joint strength.
Since we know how to pack polyester fiber, our strapping would be the most suitable choice for polyester fiber manufacturer.
It's a very safe way to protect worker as well as product that is why it's highly recommended to use PET strapping for fiber industry in developed countries instead of steel wire.

Application

- ▶ Every kinds of staple fiber bale, cotton bale, roll

FIBER Industry

Width		Thickness		Surface	Tensile Strength(KGF)		Elongation
mm	inch	mm	inch		Kgf	LBS	
16.00	5/8	0.9	0.035	SMOOTH	630	406	14±2
16.00	5/8	1	0.040	SMOOTH	705	406	14±2
19.00	3/4	1	0.040	SMOOTH	840	406	14±2
19.00	3/4	1.27	0.050	SMOOTH	1,060	406	14±2

Standard color : Opaque Green, Black
Every color is available upon request

Joint Strength Above 90%



Application

TIMBER Industry

Feature

- ▶ Smooth surface(no scratch on the product)
- ▶ Easy to handle.
- ▶ No rust
- ▶ Better productivity with automatic line
- ▶ Proper elongation rate assures NOT loose bind strapping.

Application

- ▶ Natural wood, plywood and ETC

TIMBER Industry

CODE NO.	Width		Thickness		Surface	Tensiel Strength(KGF)		Elongation
	mm	inch	mm	inch		Kfg	LBS	
HD160100E	16.00	5/8	1.00	0.040	EMBOSED	640	1380	12±2
HD190100E	19.00	3/4	1.00	0.040	EMBOSED	760	1680	12±2
HD160100S	19.00	3/4	1.00	0.040	SMOOTH	830	1830	12±2
HD190127S	19.00	3/4	1.27	0.050	SMOOTH	1050	2310	12±2

Standard color : Opaque Green, Black
Every color is available upon request

Joint Strength Above 90%



Application

PAPER / PULP Industry

Feature

- ▶ Smooth surface(no scratch on the product)
- ▶ Easy to handle.
- ▶ No rust
- ▶ Better productivity with automatic line
- ▶ Proper elongation rate assures NOT loose bind strapping.

Application

- ▶ paper and pulp

PAPER Industry

Width		Thickness		Surface	Tensiel Strength(KGF)		Elongation
mm	inch	mm	inch		Kfg	LBS	
16.00	5/8	1.00	0.040	EMBOSSSED	640	1380	12±2
16.00	3/4	1.00	0.040	EMBOSSSED	760	1680	12±2
19.00	3/4	1.00	0.040	SMOOTH	830	1830	12±2
19.00	3/4	1.27	0.050	SMOOTH	1,050	2310	12±2

Standard color : Opaque Green, Black
Every color is available upon request

Joint Strength Above 90%



Application

BEVERAGE CAN, PET BOTTLE Industry

Feature

- ▶ No dust during packing process unlike PP strapping
- ▶ Smooth surface(no scratch on the product)
- ▶ Easy to handle. ▶ No rust
- ▶ Better productivity with automatic line
- ▶ Proper elongation rate assures NOT loose bind strapping.

Application

- ▶ Beverage CAN and PET BOTTLE

CAN,PET BOTTLE Industry

Width		Thickness		Surface	Tensiel Strength(KGF)		Elongation
mm	inch	mm	inch		Kfg	LBS	
9.00	1/3	0.50	0.020	SMOOTH	190	419	14±2
10.50	2/5	0.68	0.027	SMOOTH	300	661	14±2
11.50	4/9	0.52	0.020	SMOOTH	250	551	14±2

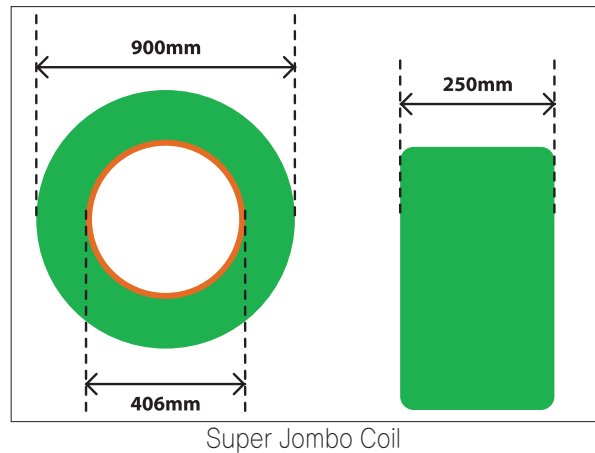
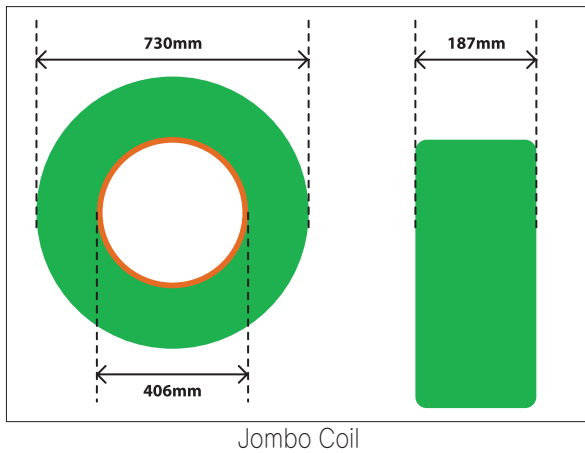
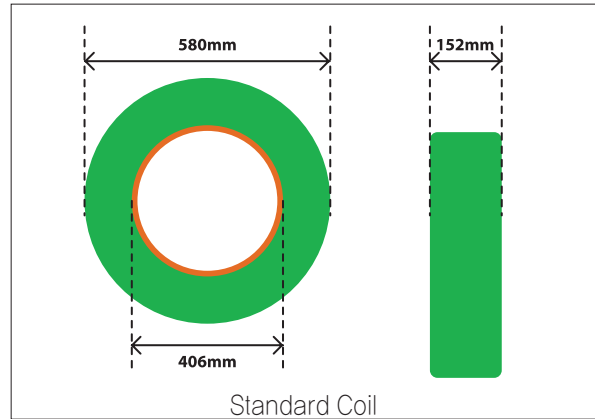
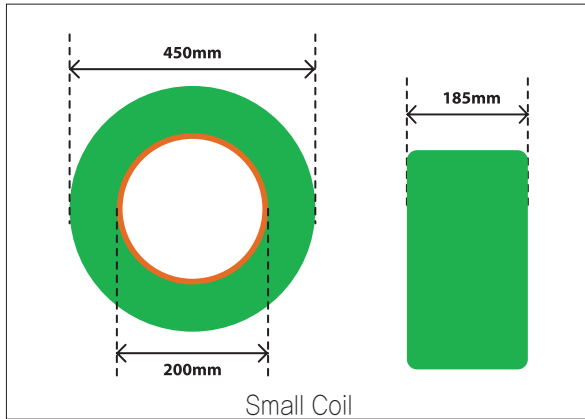
Standard color : Opaque Green, Black
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Joint Strength Above 90%

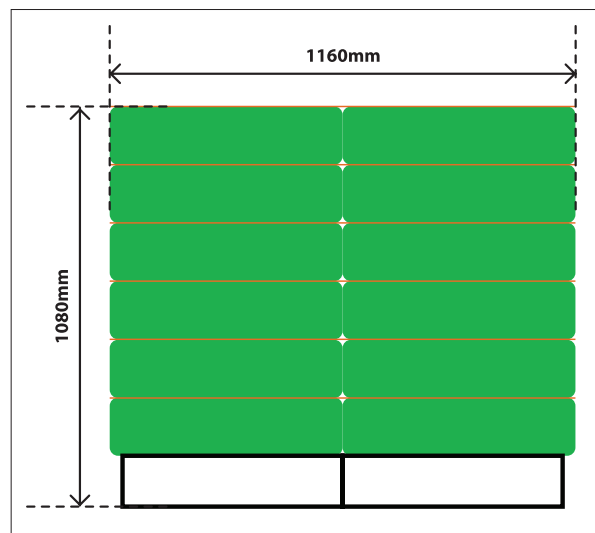
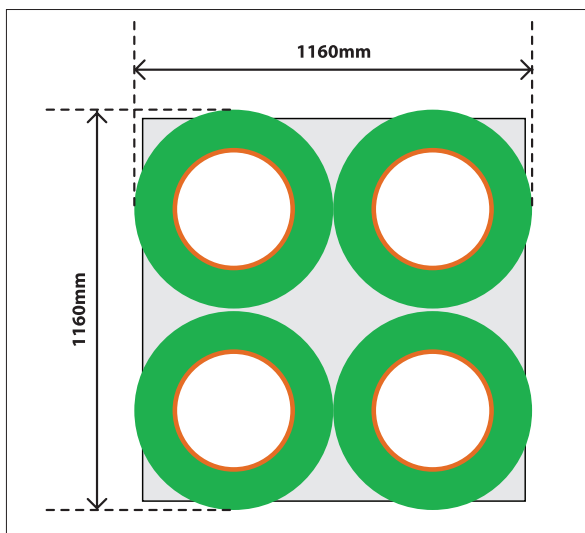


Packing Detail

Packing Size / Coil별



Example of Standard Coil / Pallet



For standard coil, it is able to load

10 ~ 20 PALLETS, 480 COILS ~ 520 COILS at 20' FCL
20 ~ 40 PALLETS, 960 COILS ~ 1040 COILS at 40' FCL

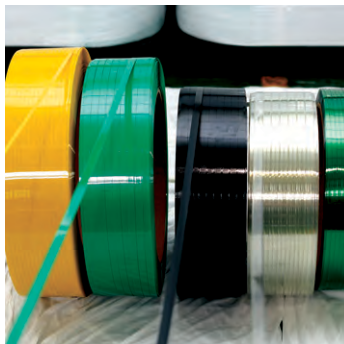
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DAE YANG STRAPS



HEADQUATER

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