

## *Reel Packaging Products*



L-S Industries, Inc. (L-SI) provides much of North America with custom reel packaging products. We provide light-duty and protective reel wraps, drum wraps, flange liners, and other reel packaging products. All these products are cut to your exact reel specifications. These are helpful in protecting wire & cable, flexible pipe, high-end rope, and other products shipped and stored on reels.

1. Reel Wraps - We can custom cut any material to fit your reels. We have a variety of light-duty and protective materials to offer. We also have the capability to combine multiple materials to achieve your specific packaging needs for cost and impact protection.
2. Drum Wraps - Some of our exterior reel wraps can be used to line the drums/hubs of wooden or metal reels. They provide a smooth surface for wrapping products around the drum. Closed-cell foam and solid plastic sheeting are the two most popular options.
3. Flange Liners - We can cut a variety of materials to fit around the drum and up against the inside flanges of your reels. This provides a smooth surface, so your product does not get damaged by older reel flanges.
4. Other Reel Packaging Products – We offer other custom reel products for the industry such as printable placards and side covers for metal spoke reels and protection rings that protect the tail ends that stick out on the outside of the flange.

## REEL WRAPS

L-S Industries converts a variety of rolled materials for the purpose of protecting products shipped and stored on reels. Shown here are our more popular light-duty and protective reel wraps but we can create a unique wrap to meet your specific needs depending on cost and level of required impact protection. Some products need protection from impact while others only need to keep dust and dirt off the product. We can help you find the right material for you.

### Light-duty Reel Wraps

These reel wraps are designed for keeping dust and dirt off your product and giving your reel a clean, “finished” look. Additionally, some of these wraps protect your product from rain and the sun’s UV rays. Printing is available on some of the wraps for brand advertising and handling instructions.

There are generally different thicknesses, or product weights, with each material. These can be customized to you needs.

Visit our web page at

[www.l-si.com/reel-packaging](http://www.l-si.com/reel-packaging).



Thermal Wrap keeps heat away from the product



Single-Face Kraft (A or B flute)



Poly-Coated Linerboard



Closed-Cell Foam



Printable XF Film



Thermal Wrap



Printable Scrim

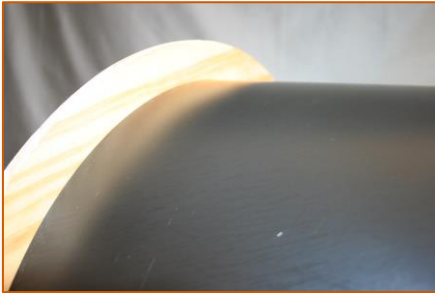




Single-face corrugated plastic



Double-face corrugated plastic



Heavyweight plastic sheeting



Scored Fiberboard sheets



Heat-scored CABLEGUARD



Heat-scored EXPORTGUARD



EXPORTGUARD wrap with flange liners

## Protective Reel Wraps

These reel wraps are designed to protect your product from impact which can result in damage. We can combine materials to give you more impact protection if needed. Foam laminated to the backside of the wrap not only provides additional impact protection, it adds cushion up against your product that helps absorb the shock of an impact event and not allowing it to transfer down to the cable.

We understand both NMFTA and NEMA standards and can provide any wrap listed in either document.

These wraps are available in custom widths. Various colors and product weights may be available with higher volumes. Printed film can also be laminated on the wrap for branding and/or handling instructions.



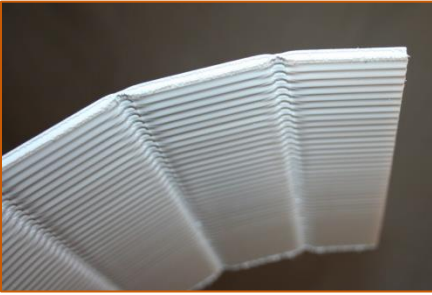
**\* FEATURED PRODUCT \***



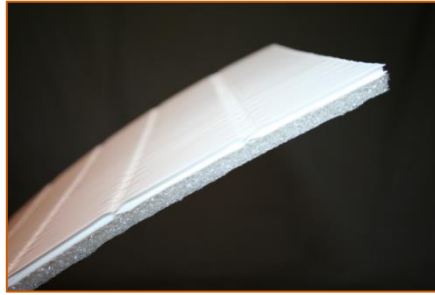
CABLEGUARD Reel Wrap



Custom fit to your reels



Heat-scored material



Foam laminated to the underside



Foam overlap creates a tight seal



Printed film can be added

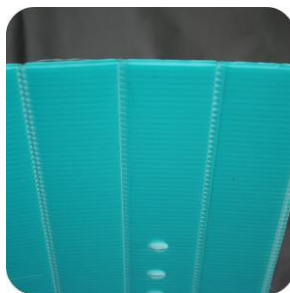


Nice, clean looking package



Rolls cut to exact size

Gardner Impact Test results are available for both CABLEGUARD and EXPORT-GUARD products. Contact us for the results. Test photos are shown below.



## CABLEGUARD

L-S Industries is the exclusive provider of heat-scored CABLEGUARD in North America. We cut the wrap to exact width and length to meet your needs. This product is made in the U.S.A. and is fully recyclable (RIS code 5 PP).

### What is CABLEGUARD?

CABLEGUARD is a specially designed 4mm corrugated plastic that has been widely accepted in the wire & cable industry as a superior wrap for protecting products shipped and stored on reels. It is popular for its advantages:

- **Weather-resistant & provides protection from UV rays**
- **Great impact protection**
- **Can be applied in between the flanges or stapled to the rolling edges**
- **Customizable options:**
  - **PE foam laminated underneath**
  - **Printed film laminated on top**
  - **Exact width, up to 102"**
  - **Lengths of 300', 150' or 100'**
- **Short lead times and low minimums**
- **Approved by the NMFTA for transporting fiber optic cable and by NEMA for bi-national wire**

All these advantages make this the best protective reel wrap. This recyclable wrap is easy to apply, which saves time on the packaging line. The ability to add foam to the underside allows you to add impact protection without adding significant cost.



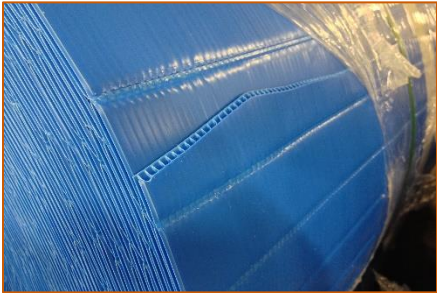
## \* FEATURED PRODUCT \*



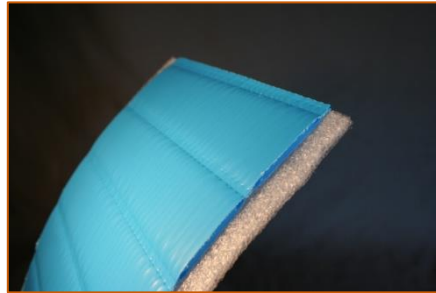
EXPORTGUARD Reel Wrap



EXPORTGUARD material



EXPORTGUARD roll



EXPORTGUARD with 1/4" foam



Foam overlap up against the flange



Master rolls



Can be stapled to rolling edge



300' rolls standard

Similar product specs to our CABLEGUARD material. 4mm (1/6") thick plastic, 3/8" thick with the foam laminated to it. Thicker foam is available upon request. Maximum width is 102", roll lengths can be customized from 300' and under. Impact testing has shown EXPORTGUARD to give the most impact protection of any wrap we offer (Gardner Impact test – ASTM 5420). This material was approved by the NEMA reel packaging committee in 2013 as a viable material for export packaging.

## EXPORTGUARD

EXPORTGUARD is a heavier-weight version of our CABLEGUARD product & is meant to replace expensive wood lagging options. It has been accepted in the wire & cable industry as a viable alternative to wood lagging. It has four main advantages vs. wood lagging options:

### COST SAVINGS

- Significant cost savings over wood lagging options (both in material cost and labor to apply). You can also ship out more reels in the same amount of time since it is much easier to apply. Customers are reporting 50% to 60% savings on their packaging costs
- Short lead times and low minimums.
- Little waste, no cutting to exact width

### SAFETY

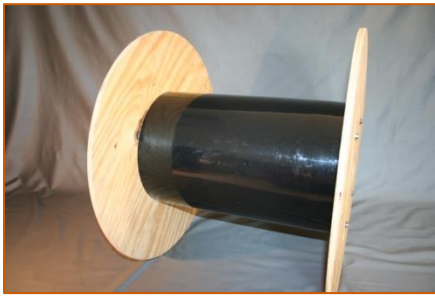
- Takes injury-prone tools like nail guns and staplers out of employees' hands and eliminates the need to cut down wood products to size
- Much easier to apply & for the customer to take off the reel as well

### ENVIRONMENTAL

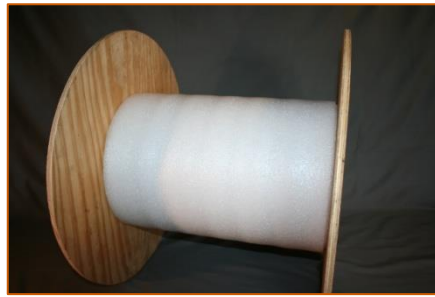
- Completely recyclable material (can be recycled under RIS code 7) where wood must be burned or disposed of

### PERFORMANCE

- Completely resists moisture and protects from UV rays
- Foam backing overlaps the width of the plastic to create a tight seal up against the flanges keeping water and moisture away from your product
- Excellent impact protection
- Provides a clean, professional look to your reels



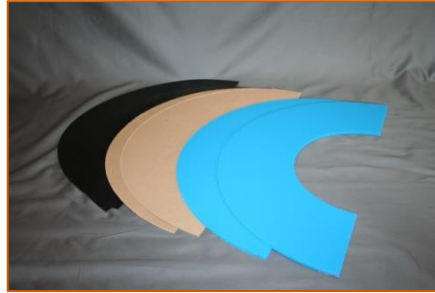
Solid Plastic Drum Wrap



Foam Drum Wrap



Corrugated Plastic Flange Liner



Flange Liner options



Printed Placard for spoke reels



Custom Flange Liners



Side Covers for spoke reels



Protection Rings

## OTHER REEL PACKAGING PRODUCTS

L-S Industries offers some supplemental items for products shipped and stored on reels:

**Drum Wrap:** give a smooth surface on older wooden or rusty metal reel drums. Depending on the need, several options available. Solid plastic sheeting is excellent for providing a smooth surface that is weather-resistant. Our closed-cell foam is excellent for absorbing imperfections in wooden reel drums.

**Flange Liners:** We excel at cutting flange liners that protect cables from imperfections in the reel flanges. These "donuts" can be stapled, taped, glued, or even secured with plastic plugs to the reel flanges. Some options, like corrugated plastic, offer long-term solutions for providing a chemical and weather-resistant surface to be used again and again.

**Protection Rings:** Another cost saving product we offer is our plastic protection rings. These "donuts" are stapled to the outside of the reel to protect the tail end of the cable during shipments. These are significantly cheaper than metal rings, traditionally used for side impact protection. We also can cut small squares of material to protect the cable tails placed on the inside of the flange.

**Placards/Side Covers:** We offer printed plastic placards and full side covers that secure to metal spoke reels to display your company logo, any handling instructions, and a place to secure order information for that reel.

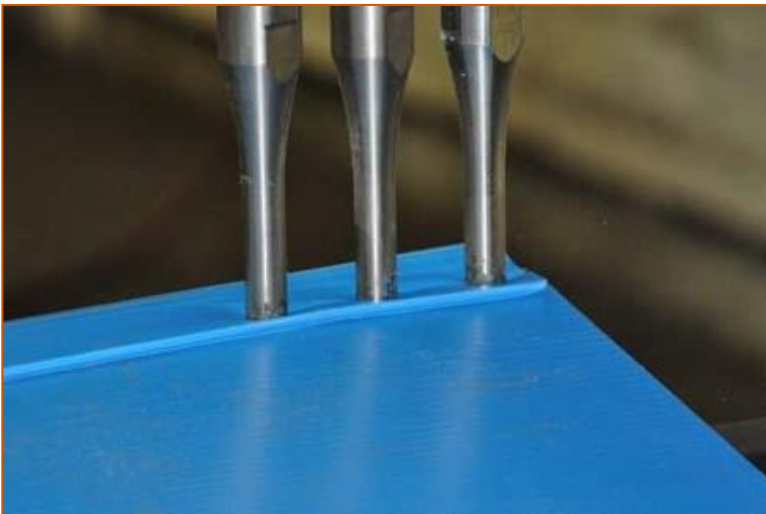




Cutting rolled and sheeted materials



Laminating rolled and sheeted materials



Sonic-welding corrugated plastic

## CUSTOM CONVERTING AND FABRICATING

L-S Industries, Inc. provides reliable, custom conversion and fabrication of materials, primarily for industrial packaging. We specialize in cutting, laminating, heat-sealing, and sonic-welding. We inventory a variety of materials to offer quick turnaround times in most cases. We have converting experience with several materials for many different industries and applications. We can help you select the right material for the required application.

Cutting a rolled material to width or to length creates a unique product for a specific customer. For instance, cutting a rolled product down to 25 1/2" inches wide by 100' long creates a reel wrap to the exact size of a customer's reel eliminating the need for their employees to do any extra converting on site. Let them do what they do best.

We primarily convert materials for industrial packaging applications. We convert materials such as corrugated plastic, corrugated Kraft, closed-cell foam, fiberboard, linerboard, plastic films, and spun bond. While packaging is a focus of our business, our capabilities allow for so much more. We manufacture products such as tree guards for protecting young trees and corrugated plastic totes and boxes used for storage and transport of documents, apparel, and other smaller products.

Visit [www.l-si.com](http://www.l-si.com) for more information



L-S Industries celebrates almost 50 years of expertise in converting, laminating, and packaging manufacturing. It is our vision to be a leader in packaging manufacturing by providing innovation. We strive to provide excellent service and timely delivery for our customers. While the packaging we provide is not your final product, we realize it is critical to your business and we treat it as such. The dedicated employees at L-S Industries are focused on customer service and creating a business partnership with our customers to deliver optimum value.

L-S Industries believes in recyclable packaging products to help limit the impact on our environment. We recycle all available scrap in our facility, and we encourage our customers to recycle the materials we sell them as well.



Heat-Scored CABLEGUARD with overlapping foam



Reel Wraps



Custom Sizes



Available in rolls



Custom Products



Printed Placards



Flange Liners

## INDUSTRIAL PACKAGING SOLUTIONS

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