



ligum

## Precision Elastomer Sleeves

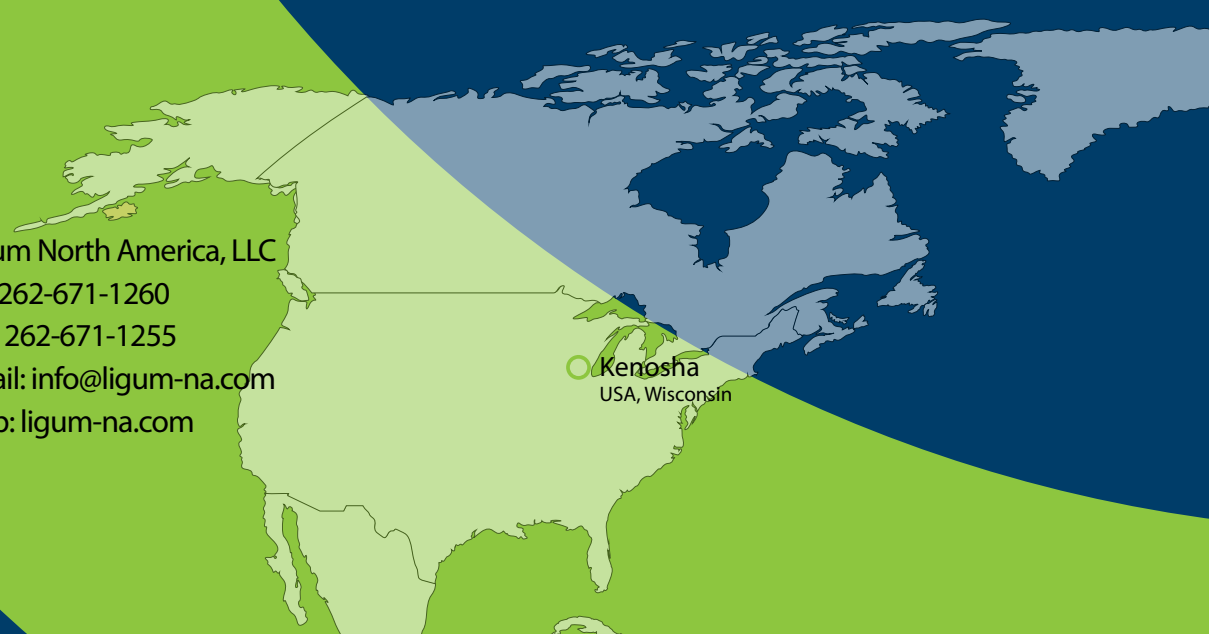
LIGUM North America, LLC  
[www.ligum-na.com](http://www.ligum-na.com)

## Ligum North America draws on a rich global history of manufacturing excellence.

Ligum began operations in the Czech Republic in 1993. In 1997, Westland GmbH (Germany) invested in the company, and Ligum became part of the Westland Group. From its beginnings, Ligum has seen rapid growth and now operates plants in the Czech Republic, Slovakia, Poland, Ukraine, Russia and the United States.

Ligum produced its first sleeve in 1997. Currently, elastomer covered sleeves are the primary items produced in Ligum's modern new plant in the Czech Republic. In recent years Ligum has become the market leader for laser-engraved flexographic sleeves in Europe.

In 2012, Ligum North America, LLC, was established with a state of the art facility in Kenosha, Wisconsin USA. Focused exclusively on sleeve technology, Ligum North America serves customers in the USA, Canada, Mexico and Central America. Like our Czech parent, we provide first quality, high performance elastomer covered sleeves to our customers in the flexographic, gravure and converting industries.

A stylized map of North America is shown in light green and white. A callout line points from the text to a specific location in the Midwest of the United States, marked with a green circle.

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# Sleeves are our Business

Ligum North America is singularly dedicated to the production of high-performance elastomer covered sleeves for flexographic and gravure printing, as well as paper, film & foil converting.

Specialized products include:

- **Flexographic Printing**

- Elastomer sleeves for Direct Laser Engraving (DLE)
  - Compounds for solvent, water and UV based inks
- Flood Coat sleeves (including registered)
- Coreless Tint Sleeves for narrow web

- **Laminating**

- Elastomer Transfer sleeves
- Elastomer Pressure sleeves
- Combining Nip sleeves

- **Gravure Printing**

- Elastomer Impression sleeves (non-ESA)

- **Converting and Mechanical**

- Sleeves for substrate control and specialized mechanical applications



# Flexography

## Flexographic printing

### Flexo sleeves mean speed, simplicity and savings

Growth in flexographic printing has been fueled by ever-increasing print quality, efficiency and lower cost.

Ligum North America offers flexographic elastomer sleeves for both direct laser engraving (DLE) and solid printing.

### Design flexibility to meet your specialized needs

We offer a wide range of compounds optimized for specific applications, including EPDM, NBR, SBR and copolymers.

These elastomers are developed and optimized to your specific application, using laboratory and on-press testing, coupled with Ligum's depth of experience.

Shore A harness range: 40 to 80

Sleeve configurations:

- Cylindrical (all sleeve versions), and
- Conical (all except Precision Thin Sleeves)

### Direct Laser Engraving (DLE) Sleeve

#### Benefits

- Durability
- Excellent ink transfer
- High resolution — up to 200 lpi
- Optimal registration
- Seamless — high-speed
- High solvent resistance
- Eliminates chemical processing
- CO<sub>2</sub>, YAG and Diode compatible

Ligum elastomer coverings are 'Laser-Ready'. High resolution is achievable for solids, patterns, type and fine process color printing.



*DLE Sleeves*

## Solid Print/ Coating Sleeve

### Registered Flood Coat or Standard Flood Coat Sleeve

#### Benefits

- Fiberglass base
- Durable – long life
- Excellent ink transfer
- No break line
- High-speed

### Coreless Tint Sleeve

#### Benefits

- Low cost
- Ideal for Narrow-web
- Standard sizes in stock
- Excellent ink transfer
- No break line

## Precision Thin Sleeves

Ligum is sensitive to the needs of Flexo printers who already utilize other plate and ITR materials. Precision Thin sleeves create the opportunity to realize the benefits of elastomer sleeves while leveraging your existing tooling investment. Ligum Thin sleeves are built to match the build-up of various polymer and plate materials — ITR or tape mounted.

#### Benefits

- Higher abrasion resistance than photopolymer.
- Use your existing photopolymer tooling

Thin sleeves can be used for printing on compressible adapters (similar to other ITR products). While certain thicknesses are standard, there is no limit to the combinations that can be achieved with this technology.



*Coreless Tint Sleeve*



*Precision Thin Sleeves*



# Specialty Sleeves

In addition to sleeves for flexographic printing, Ligum also offers elastomer sleeves for other printing and converting technologies, including impression sleeves for gravure and sleeves for the laminating process.



## Lamination

### Benefits:

- Conical (tapered) and cylindrical ID
- Excellent anti-adhesive performance
- Easy clean-up
- High resistance to laminating materials and solvents
- Compounds optimized for your specific application

Ligum lamination sleeves can be specified in higher durometers (typically around 80 – 82 Shore A) in EPDM or CPE (easy cleaning characteristics). Both formulations exhibit excellent solvent and adhesive resistance.

## Other Services and Capabilities

### Recovering and Regrinding

Ligum helps keep your total cost of ownership low by offering both recovering and regrinding services. Our 10-ton CNC cylindrical grinders and contactless laser inspection ensure your finish meets the same exacting specifications as our original sleeves. Call today for a quotation and put us to the test.



# Ligum North America Facility



Ligum North America opened its modern 20,000 sq. ft. manufacturing facility in 2012 to address the exacting elastomer sleeve needs of printers and converters in the Americas.

## Ligum Benefits:

- Sleeves are our business
- Service and response driven
- Non-contact laser inspection system as part of a commitment to total quality assurance
- Ligum manufacturing facility dedicated to In The Round Elastomer for the Americas
- Wide range of elastomer compounds in stock
- Access to over 50 proprietary compounds (allows optimization to your specific application)
- Consultation services from experienced personnel who understand your specific application

Call us today — we want to help solve your toughest printing, coating and converting challenges

**(262) 671-1260**



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Slovakia

Ukraine

Russia