Polymershapes MARINE

Shapes+

Performance Plastics for Marine

NON-CORROSIVE | LIGHTWEIGHT | UV-RESISTANT

No matter how complex and demanding the project, turn to Polymershapes for a complete portfolio of materials for your marine applications.

There are a variety of reasons for using plastics in marine environment. Plastics are lightweight compared to metal, corrosion resistant, easy to fabricate, and offer a broad range of design flexibility in terms of color, texture, and pattern.

With the industry's largest network, in-house expertise, and a focus on service, Polymershapes will ensure you have everything you need, when and where you need it.

APPLICATIONS

- Hatches
- Railings
- Window frames
- Walkways & ladder treads
- Decking
- Dock bumpers/fenders
- Cowls
- Fairings
- Fishing rod holders and racks
- Pulleys and sheaves
- Hull coring
- Rudder and stern shaft bearings
- Vacuum infusion processes
- Cabinetry
- Swim platforms
- Sealing

SIMONA AMERICA GROUP

LEXAN™ Tough Virtually Unbreakable Polycarbonate Film & Sheet

LEXAN is a trademark of SABIC

MITSUBISHI CHEMICAL GROUP Advanced Materials

PLASKOLITE, LLC

Diab

ASTARIGLAS® CAST ACRYLIC SHEET

PRIMEX

A subsidiary of ICC Corporation Inc.

Thermoplastic Processes

KÖMMERLING

SPARTECH

SHAPES+ NAUTICAL & NAUTICAL EXTREME ACRYLIC

For windshields, boat hatches, cabinetry & enclosures

Nautical Cross-Linked Cell Cast
- Higher chemical resistance
- Scratch and impact resistance
- Easy to form and fabricate
- Available in a range of thicknesses and colors

Nautical Extreme Impact Modified
- Alternative to polycarbonate
- Superior impact strength
- Easy to form and fabricate
- Design flexibility: Available in a range of thicknesses and colors to match gelcoat tints

Laser Engravable
- Cost efficient
- Low minimum order quantity
- Customizable: Variety of design patterns and colors available, including metallics
- Eliminates post forming painting

SHAPES+ ENCLOSURE MATERIALS

Shapes+ ENC Polycarbonate
- High optical clarity
- Strength and stiffness
- Chemical and weather resistant
- Low moisture absorption
- Sewable

SHAPES+ UPHOLSTERY MATERIALS

Shapes+ MG PVC & PVC Extreme
- Shapes+ Marine Grade PVC & PVC Extreme offer low water absorption, chemical and corrosion resistance and weatherability
- Great insulation properties
- Water resistance
- Excellent screw & lag retention

CORING COMPOSITES

Diab Divinycell Core Materials

Divinycell HP
- Meets the demands of higher temperature processing
- Adhesion/ peel strength

Divinycell HM
- Outstanding toughness and strength
- High elongation

Divinycell PY
- High shear strain and low resin consumption
- Recyclable

Divinycell H
- Comprehensive quality documentation and traceability
- Highest strength-to-weight properties

Kayco Composites KAY-CEL Core Materials
- Excellent strength-to-weight ratio
- Lightweight- 30% lighter than marine plywood
- Will not absorb moisture
- Will not rot, making an excellent alternative to wood

Marine-X ABS
- Will not absorb moisture
- Superior adhesion & bonding
- Excellent screw retention
- Easy to fabricate

Shapes+ Fathomboard
- Versatility
- Exceptional chemical and corrosion resistance
- Excellent strength for critical applications
- Easy to fabricate, install, drill and tap

HDPE *(Starboard alternative)*

For instrument panels, deck and seating components and storage bins

- Simona HDPE Boat Board® is durable, offers superior flatness, UV and water resistant, and maintenance-free.
- Simona HDPE Boat Board® Lightweight is 20% lighter than the standard HDPE sheet.
- Excellent impact and corrosion resistance
- Easy to fabricate
- Anti-skid textures available

LDPE TUBING

For fluid feeds, drains and vacuum infusion

- Thermoplastic Processes Excelon is corrosion resistant, offers great stability and is long-lasting
- High impact strength at low temperatures
- Good chemical resistance

ACCESSORIES

- Silicone and adhesives
- Router bits
- Plastic polish
- LED Lighting

Why use plastics in marine environments?

- Performance plastics are resistant to saltwater, UV, chemicals, weather, and corrosion.
- Low moisture absorption
- Increases hydrodynamics
- Weight savings
- Stability and rigidity
- Does not rot, swell or splinter
- Low coefficient of thermal expansion
- Excellent bearing and wear performance
- Does not warp or delaminate

Fabrication Services Available

Cut-to-size

- Close tolerances
- Standard 4″ depth of cut
- Capable of converting multiple sheets for high-volume production
- Generate maximum yield, reduce waste and minimize cost
- Scrap recycling

Custom Routing

- Radius and straight cuts
- Very tight tolerances
- Camera-guided precision cutting and routing
- Custom job support and turnkey

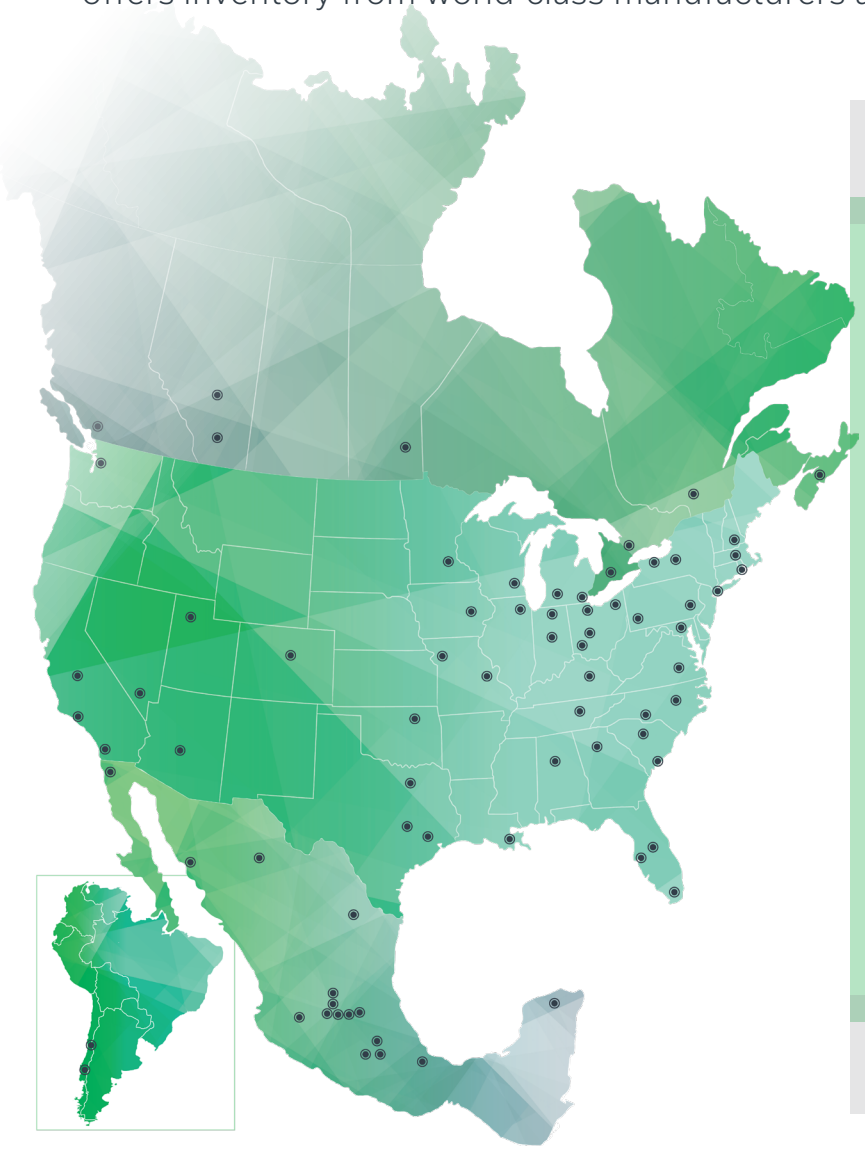
Additional Services

- Bench Fabrication
- Thermoforming
- Kitting
- Design support
- Technical support

Core Materials and Kitting Now Available!

You're the Center of All We Do

Polymershapes is the leading plastics distributor dedicated to you, the Center of All We Do. With over 75 years of experience, our team of experts provides extensive industry knowledge to deliver innovative solutions to your material and application needs. With 80 locations across the United States, Canada, Mexico, and Chile, Polymershapes' network offers inventory from world-class manufacturers and same-day delivery in many areas.



INTEGRITY + ACCURACY

You can trust.

- Local distributor of plastic sheet, rod, tube, film, and associated products
- Expert services: cut-to-size sheet, CNC routing, machining, and film conversion
- Wide range of products: 17,000+ SKUs
- Material selection and application support
- Extensive 75+ year industry heritage

Visit polymershapes.com for a location near you!

Contact us for quotes and availability:

info@polymershapes.com | polymershapes.com | (866) 437-7427

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