

PSC Industries, Inc.



Sealing, Insulating, and Quieting the World™

The background of the slide features a large, faded, light blue version of the University of Pennsylvania's crest. The crest is a shield-shaped emblem with a central vertical element and four triangular points extending to the corners. The text "UNIVERSITY OF PENNSYLVANIA" is faintly visible across the center of the crest.

Who is PSC?



PSC Industries has become one of the largest fabricators and converter of non-metallic materials globally, considered a pioneer in the fabricating industry. Our Versatile products and capabilities serve the HVAC, Automotive, Appliance, electronic and Medical Industries globally

Whether your application requires large acoustical panels or small intricate parts with exacting Tolerances, PSC has the flexible capabilities to Process Polyurethane, Polyethylene, all foams, fibers, rubber, films, foils, die cuts, gaskets rolls and adhesives to surpass expectations

Locations



▶ Nanjing, China

- ▶ Mexicali, Baja California
- ▶ Nuevo Laredo, Tamaulipas
- ▶ San Luis Potosi, SLP
- ▶ Santa Catarina, Nuevo Leon



- ▶ Muscatine, IA
- ▶ Indianapolis, IN
- ▶ Evansville, IN
- ▶ Louisville, KY
- ▶ Columbia, TN
- ▶ Montgomery, AL
- ▶ Milledgeville, GA
- ▶ Auburndale, FL
- ▶ Wichita, KS
- ▶ Fort Smith, AR
- ▶ El Paso, TX
- ▶ Houston, TX

Customers

- ▶ HVAC
- ▶ Appliance
- ▶ Office Interiors
- ▶ Wall Panels
- ▶ Heavy Truck
- ▶ Automotive
- ▶ Electronics
- ▶ Medical
- ▶ Marine
- ▶ And more





Supplier Partnerships

- ▶ PSC Industries maintains strong business relationships with many global and national suppliers for the OEM industry.

ITW Formex

ROGERS
PREFERRED CONVERTER

Wm. J. Burnett & Co.

CRANE NONWOVENS

LAMTEC
CORPORATION

3F
ADHESIVE TAPES



CARPENTER

3M

armacell
engineered foams

JDC

vita
NONWOVENS

fxi



NUTECH
THE POWER OF INSULATION

CC
COATING AND CONVERTING TECHNOLOGIES
Quality and Innovation

Lydall

KNAUF

Quietflex

Monadnock
NON-WOVEN MEDIA



OWENS CORNING

SEKISUI

Voltek

PRIMEX
PLASTICS CORPORATION
A subsidiary of ICC Industries Inc.

AVERY DENNISON



K-FLEX USA

Henkel

JM
Johns Manville

SUPERIOR
Felt & Filtration



Capabilities

Laminating

- ▶ PSC offers a diverse selection of custom lamination services.
- ▶ Lamination Services:
 - ▶ Fiberglass
 - ▶ Fiberglass Foam
 - ▶ Wet Dry Heat
 - ▶ Acrylic Film Adhesive
 - ▶ Rubber Film Adhesive
 - ▶ Liquid PSA



Custom Die Cutting

- ▶ PSC utilizes a variety of equipment to produce our customers' custom die cuts.
- ▶ The specific die cutting method used is chosen based on product volume and lead time.



▶ Flatbed Die Cutting

- ▶ Flatbed die cutting features a flatbed that feeds the raw material and a press that stamps out the product.
- ▶ Benefits:
 - ▶ Can process thicker material or multiple materials at once
 - ▶ Can closely group or nest parts, so waste & scrap are reduced



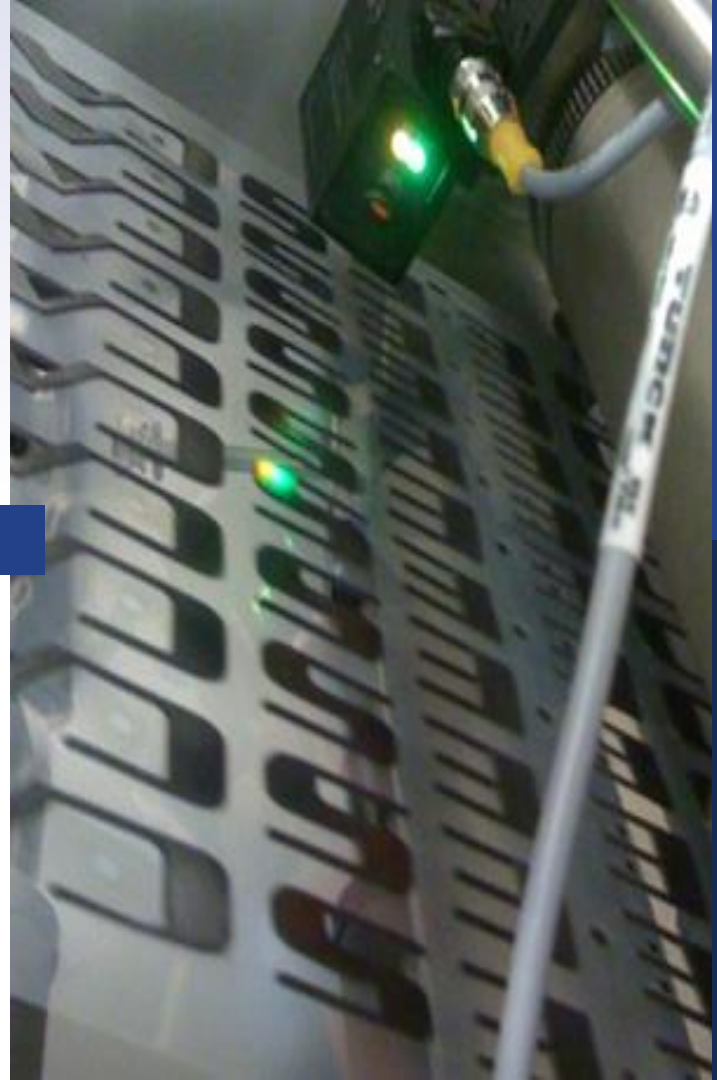
▶ Rotary Die Cutting

- ▶ Rotary die cutting is a form of die cutting that uses a cylindrical die to cut shapes out of material.
- ▶ Benefits
 - ▶ Replicates precise cuts
 - ▶ The most accurate die cutting
 - ▶ Favored for production runs that require consistency and uniformity



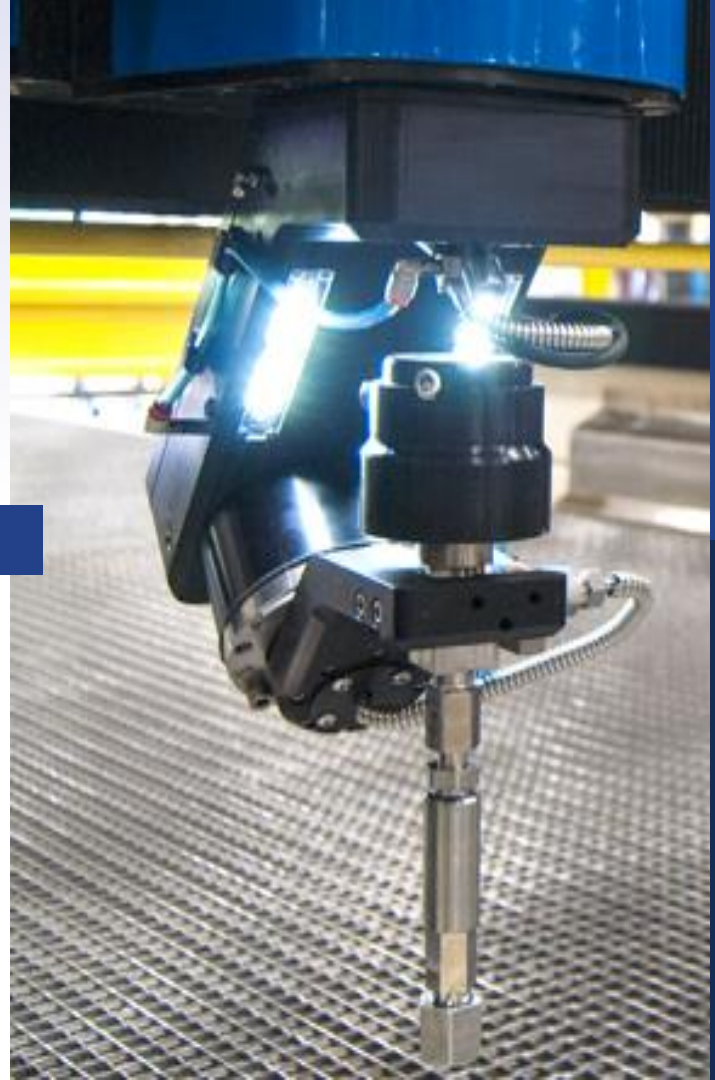
Laser Cutting

- ▶ Laser cutting is a technology that uses a laser to slice materials.
- ▶ Benefits:
 - ▶ Flexibility (does not require an exchange of tools for each separate cut)
 - ▶ Precision
 - ▶ Speed
 - ▶ Automation
 - ▶ Quality



▶ Water Jet Cutting

- ▶ Waterjets use a high-pressure stream of water to cut material.
- ▶ It be used on a wide variety of materials making it a very versatile machine.
- ▶ PSC has 25 waterjets including 5 & 6 axis capabilities.



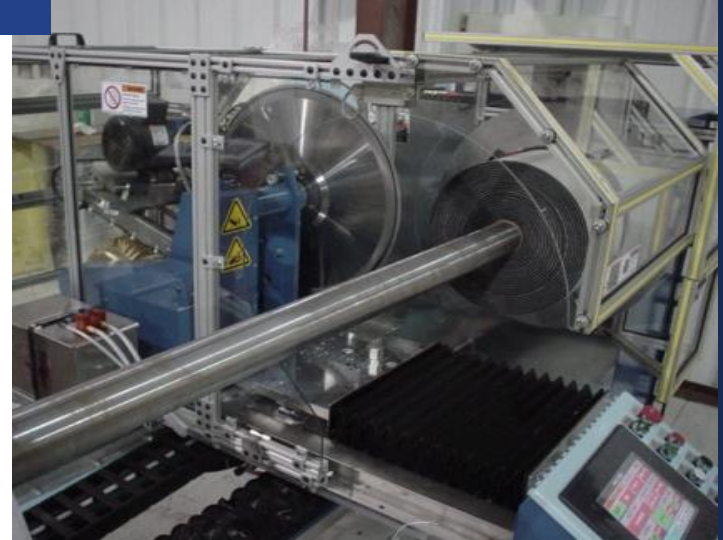
► Skiving

- ▶ Skiving involves cutting blocks of materials into thinner sheets or layers.



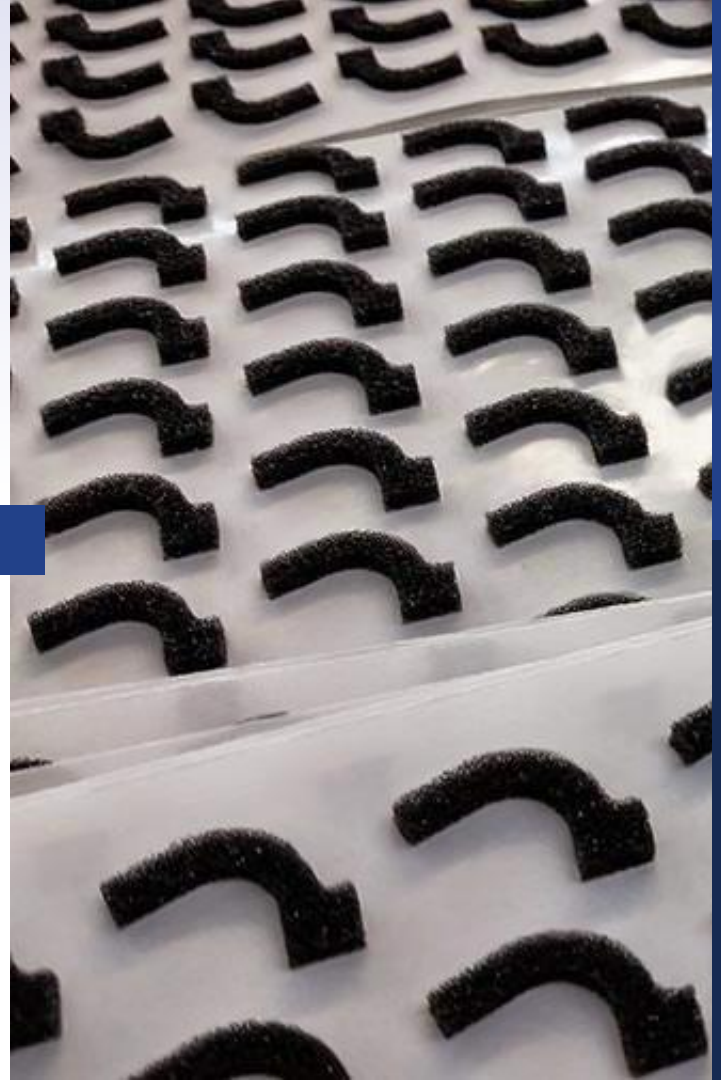
Slitting

- ▶ Slitting is the process of converting wide rolls of material into narrower rolls.
- ▶ Slitting can be accomplished with shear, knife blade, crush and razors.
- ▶ Slitting machines can be full roll web slitting or narrow web. Another common method is lathe or log slitting which produces individual rolls of material.



Kiss Cutting

- ▶ Kiss cutting is a form of die cutting with light impression cuts through the top layer, not through the backing material.
- ▶ It is commonly used for stickers, and adhesive labels.
- ▶ Materials:
 - ▶ Adhesive-backed foils
 - ▶ Papers
 - ▶ Vinyl
 - ▶ And more



▶ Warehousing

- ▶ Many of our facilities have large warehouses that accommodate to our customers' and suppliers' JIT requirements.



Shipping

- ▶ PSC shipping services include:
 - ▶ Barcoding
 - ▶ Scanning
 - ▶ ASN
 - ▶ EDI
 - ▶ Drop Shipping
 - ▶ VMI
- ▶ PSC can also provide reverse loaded trailers so customers can utilize products to feed production lines right from trailers.



Other Capabilities

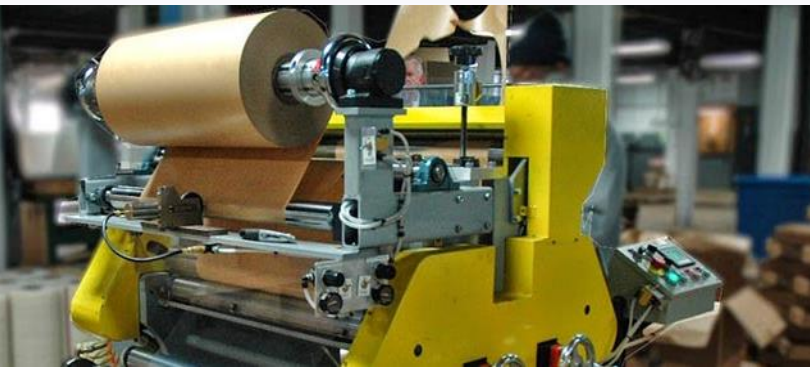
- ▶ Heat Transfer & Sealing
- ▶ Labeling
- ▶ Match Metal
- ▶ Molding
- ▶ Pallet Assembly
- ▶ Assembly
- ▶ Sewing
- ▶ Sonic Welding
- ▶ Spray Booth
- ▶ Edge Coating
- ▶ 3d Printing
- ▶ And more





Equipment

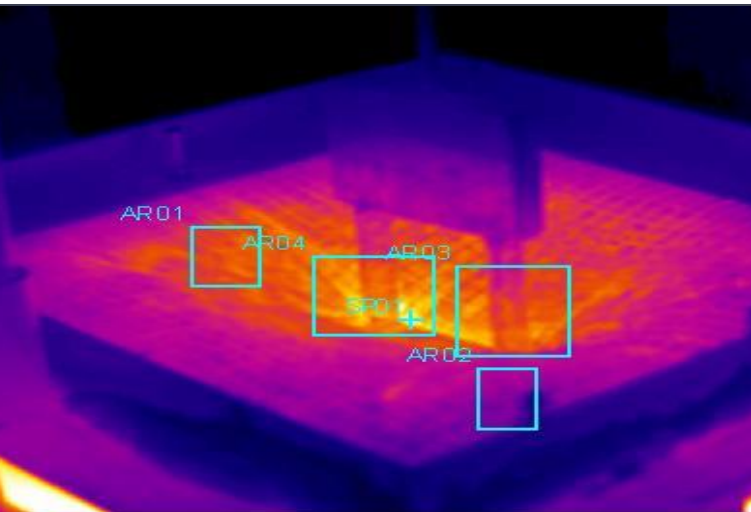
- ▶ 20+ Fully Equipped Manufacturing Locations
 - ▶ 100+ Die Cutting Presses
 - ▶ 45 Large Cutting Presses
 - ▶ 25 Waterjets (5 & 6 axis)
 - ▶ 24 Multi Station Rotary Presses
 - ▶ 19 Fiberglass Laminators
 - ▶ 14 Foam Laminators
 - ▶ 14 Skiving/ Slitters/ Saws
 - ▶ 3 High Speed Rotary Lasers





Testing Capabilities

- ▶ PSC has a lab located in our Louisville, KY plant. This lab has capabilities of testing foams, adhesives, felts, films and compatibility to specific substrates.
- ▶ We test for shear, pull force, heat aging, density, delamination, and numerous additional testing.



A vertical strip on the left side of the slide shows a financial candlestick chart. The chart has blue and yellow bars representing price movements. At the top, there are labels for 'Bid', 'Ask', 'Auto', and 'Sell'. A red box highlights the price '1.4505' and a blue box highlights '1.4500'. The text 'USD M15' is visible on the left side of the chart.

Tests & Evaluations

- 180° Peel Test Adhesion
- Shear Adhesion
- Adhesive Release Test
- Temperature Resistance-Adhesion
- Bonding Compatibility-Adhesion
- Dynamic Shear-Adhesion
- Adhesive Tensile Test
- Adhesive Elongation Test
- Co-Efficient Friction-Adhesion
- Flame Laminate 90 Degree Peel
- Foam-Density
- Foam-Indentation Force Deflection
- Foam Compression Force Deflection
- LOI
- Foam-Tensile & Elongation
- Foam-Tear Test
- Foam-Compression Test
- Foam Dry Heat Aging
- Foam-Ether Like Ester (ELE)
- Flammability-UL94V-0 94V1, & 2
- Flammability-UL94-5VA, 94-5VB
- 94VTM-0, 94-VTM-1 & 2
- FMVSS 302
- Electronic Digital & Dial Caliper Calibration
- Dial Thickness Caliper Calibration
- Weight Scale Calibration



Materials



Foam

- ▶ Low Permeability
- ▶ Polyurethane Polyether
- ▶ Polyurethane Polyester
- ▶ Cross Linked Polyethylene
- ▶ Non Cross-Linked Polyethylene
- ▶ EVA
- ▶ Packing
- ▶ Crushed
- ▶ Melamine
- ▶ EPT
- ▶ EPDM
- ▶ Silicone
- ▶ Microcellular
- ▶ Reticulated
- ▶ PVC Foam
- ▶ Polystyrene
- ▶ Rebonded
- ▶ And more

Fiberglass

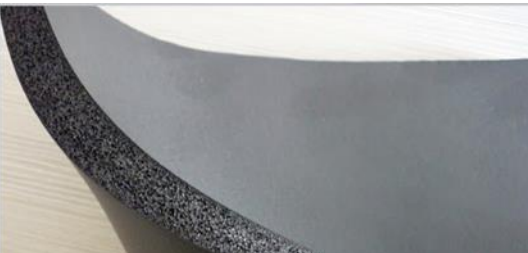
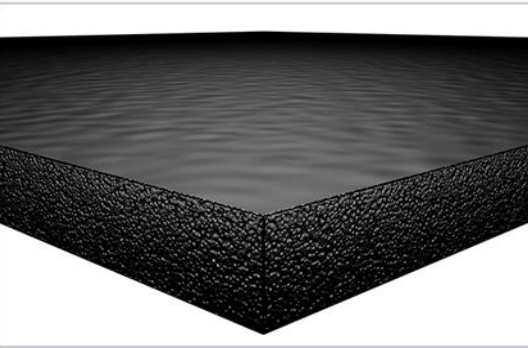
- ▶ Ceramic Wool
- ▶ Mineral Wool
- ▶ Rock Wool
- ▶ Ceramic Fiber
- ▶ E-Glass
- ▶ And more





Rubber

- ▶ Neoprene
- ▶ EPDM
- ▶ Vinyl Nitrile
- ▶ Natural
- ▶ Blended
- ▶ SBR
- ▶ Butyl
- ▶ Solid Silicone
- ▶ And more

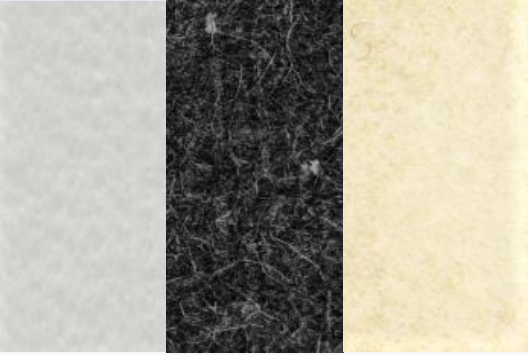


A close-up photograph showing a person's hand wearing a grey nitrile glove applying a piece of orange adhesive tape to a blue surface. The tape is being smoothed down with the fingers.

Adhesives & Tapes

- ▶ Rubber
- ▶ Acrylic
- ▶ Silicone
- ▶ Hot Melt
- ▶ Water Based
- ▶ Solvent
- ▶ IR Activated
- ▶ Acrylic Foam Tape
- ▶ Adhesive Transfer Tape
- ▶ Adhesive Double Coated Tape
- ▶ Adhesive Single Coated Tape
- ▶ UHMW Tape
- ▶ And more





▶ Nonwovens

- ▶ Flock
- ▶ Felt
- ▶ Blended
- ▶ Needled
- ▶ Pressed
- ▶ Shoddy
- ▶ Spunbond
- ▶ Wool
- ▶ Nylon
- ▶ Nonwoven Polyester
- ▶ Carpet
- ▶ Cotton
- ▶ Melt Blown Polypropylene
- ▶ And more





Other

- ▶ Aluminum Foil
- ▶ Fish Paper
- ▶ Homasote
- ▶ Chipboard
- ▶ Cork
- ▶ Honeycomb Cardboard
- ▶ HDPE
- ▶ LDPE
- ▶ PVC
- ▶ PETG
- ▶ Bitumen
- ▶ Formex
- ▶ PTE & PTFE Films
- ▶ And more



Markets

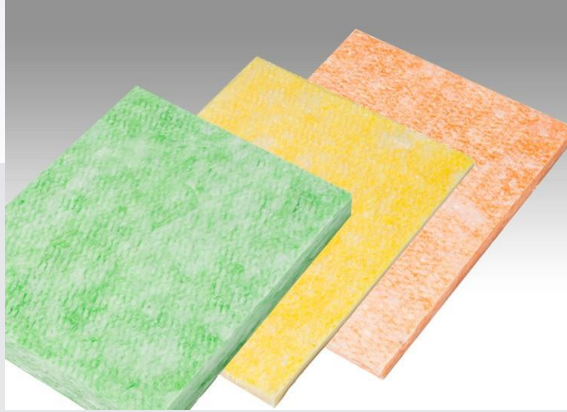


Aerospace

- ▶ PSC offers high-quality materials with excellent acoustic and thermal properties for this industry.
- ▶ Main Applications:
 - ▶ Insulation
 - ▶ Gasketing
 - ▶ Padding



Aerospace



Microlite AA Standard

This is a flexible blanket with excellent thermal & acoustic properties & includes a waterproof binder. Material is ideal for insulating fuselage & wall cavities.



Microlite AA Premium

These blankets offer the same properties as the Microlite AA Standard but at 20% less weight.

Appliance

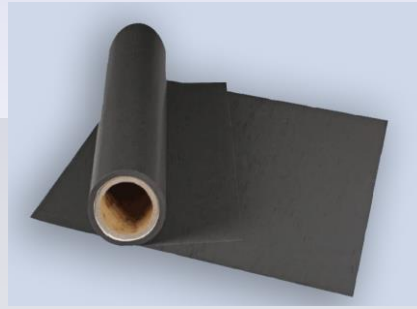
- ▶ PSC offers a wide array of materials for this diverse market.
- ▶ Main Applications:
 - ▶ Sealing & Gasketing
 - ▶ Thermal Insulation
 - ▶ Acoustic Insulation
 - ▶ Moisture Protection
 - ▶ Vibration Isolation
 - ▶ Packaging





Bitumen

Superior acoustic insulation & sound dampening.



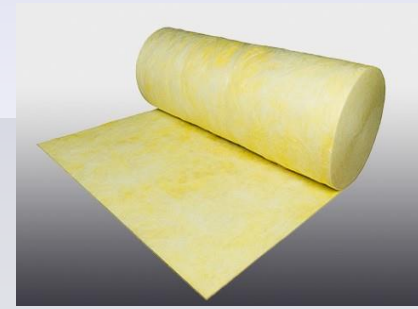
Filled EVA

A green recycled acoustical barrier.



Aluminum Backed, Butyl Rubber

Used to seal surfaces from moisture, dust, and air.



Fiberglass

Fiber high temperature & refractory class products.



Foam

Sponge Rubber, polymers, & copolymers.



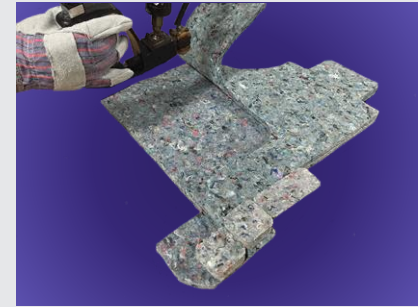
Fish Paper

Strong, flexible, paperboard. Ideal for electrical insulating.



Films

An array of films with varying properties and specifications.

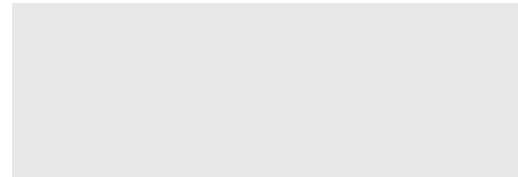
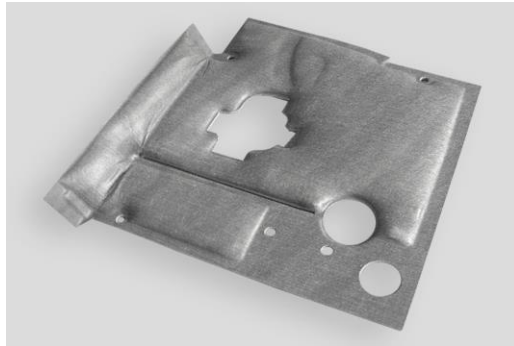
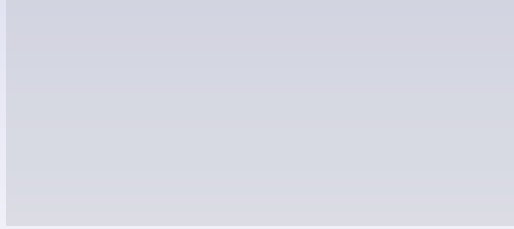


Shoddy

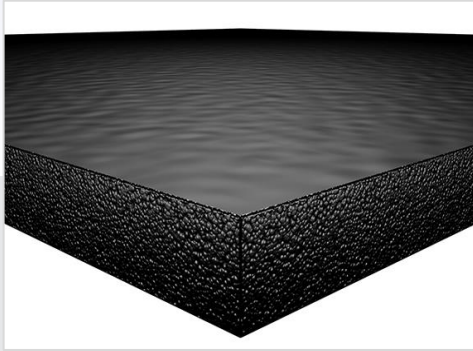
Made with recycled woolen or cotton textiles.

Automotive

- ▶ PSC offers automotive applications for sound dampening, thermal insulation, sealing, gasketing, fabrics & more.
- ▶ Main Applications:
 - ▶ Felt for BSR
 - ▶ Foam Seals
 - ▶ NVH & Fabrics
 - ▶ Structural PP
 - ▶ High Temp Insulation



Automotive



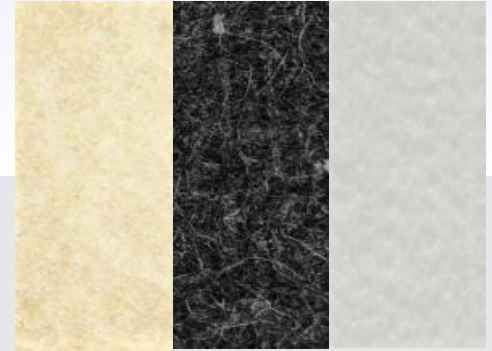
Foam

Uses include gaskets, seals, liners, panels, trim, insulation and mats.



NVH

Uses include door trim panels, door hole seals, headliners, wheel wells, truck liners, vehicle pillars, and parcel trays.



Felt & Carpet

Our felts include blended, needled, pressed, synthetic, wool and more. Felt uses include BSR, pads, and more.

▶ Electronics

- ▶ Whether you're trying to eliminate noise and vibration or package electronics safely, PSC has the solutions.
- ▶ Main Applications:
 - ▶ Copier Parts
 - ▶ Custom Packaging
 - ▶ Labels
 - ▶ Printer Parts



▶ Electronics



Extruded Polyethylene Foam

Ideal for packaging solutions. Offers excellent cushioning and can weather repeated impacts, keeping the product safe.



PORON®

A line of polyurethane foam products used for electronic gaskets, sealing, cushioning and vibration management.



DeWAL®

A line of polymer films and pressure sensitive PTFE and UHMW tapes used for electrical insulation, wire and cable protection, and more.

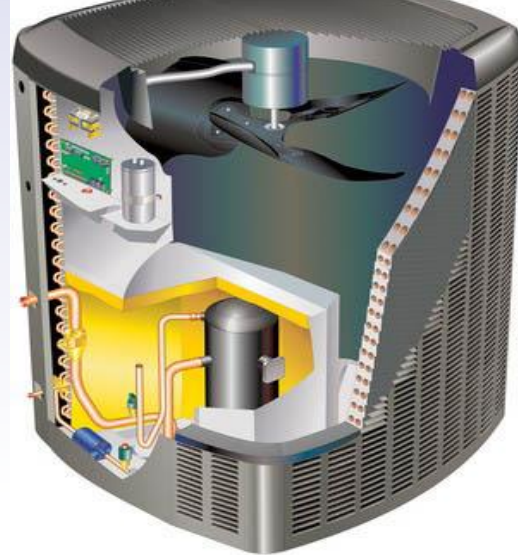
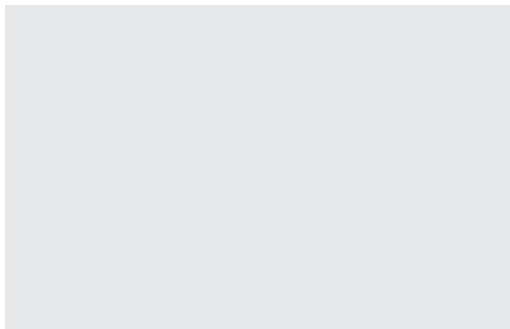
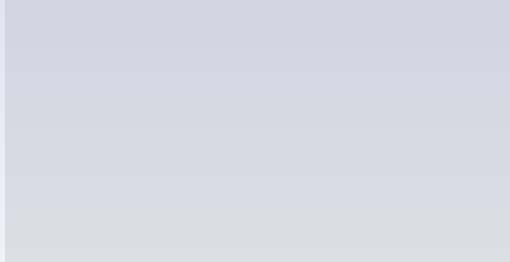


FORMEX™

A line of flame retardant polypropylene electrical insulation materials. These materials can also be scored and folded into three dimensional shapes.

HVAC

- ▶ PSC offers materials to encourage consistent temperature, foster efficiency and limit unwanted sound and vibration.
- ▶ Main Applications:
 - ▶ Faced & Unfaced Fiberglass
 - ▶ Gaskets and Sealing
 - ▶ High Temp Fiberglass
 - ▶ Cut & Bulk Tubing

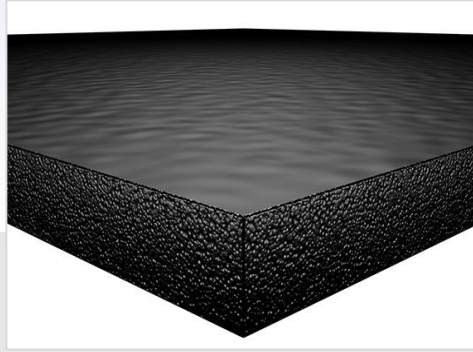


HVAC



Fiberglass

We offer a wide range of fiberglass and conforms easily around corners and curved surfaces. Fiberglass is the best thermal value in the marketplace.



Foam

We offer EPDM, NBR/PVC, Polyurethane, polyethylene and neoprene blend foams. Materials are available in weather and UV resistant options to withstand outdoor conditions.

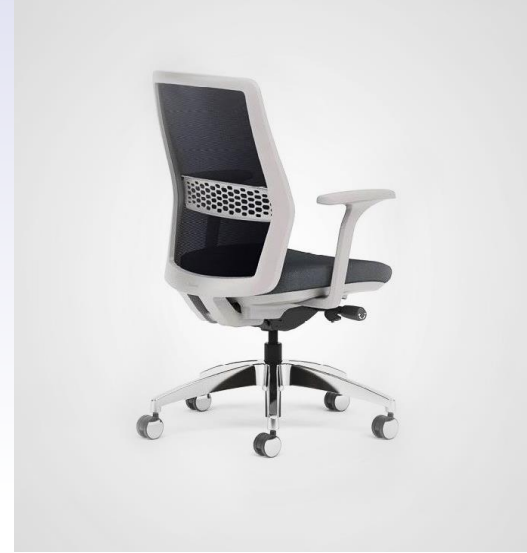
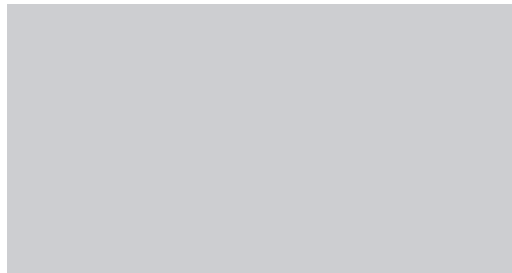
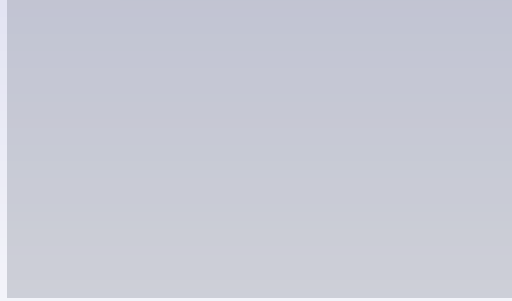


Adhesive

Adhesives can be applied to various applications. We offer adhesives that work in harsh environments, withstanding 450°F and with aggressive tack.

Office Interiors

- ▶ PSC offers acoustical and specialty products to keep sound low and productivity high.
- ▶ Main Applications:
 - ▶ Office Partitions
 - ▶ Chair Bottoms
 - ▶ Wall Systems

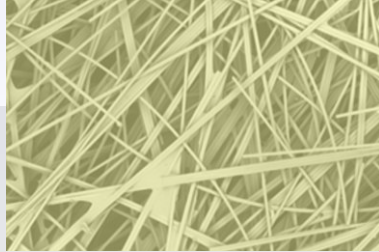


Office Interiors



Wallboard

This is made with borosilicate glass fibers and bonded with a thermosetting resin, absorbs sound, and features thermal properties making it ideal for office partitions.



Refractory Products

These are made with nonwoven fiberglass, manufactured with fine fibers with a PVA binder. This product is used in a variety of applications.



Honeycomb Cardboard

This is a rigid material made of kraft paper joined in continuous cells. This product is a light weight and eco friendly alternative.

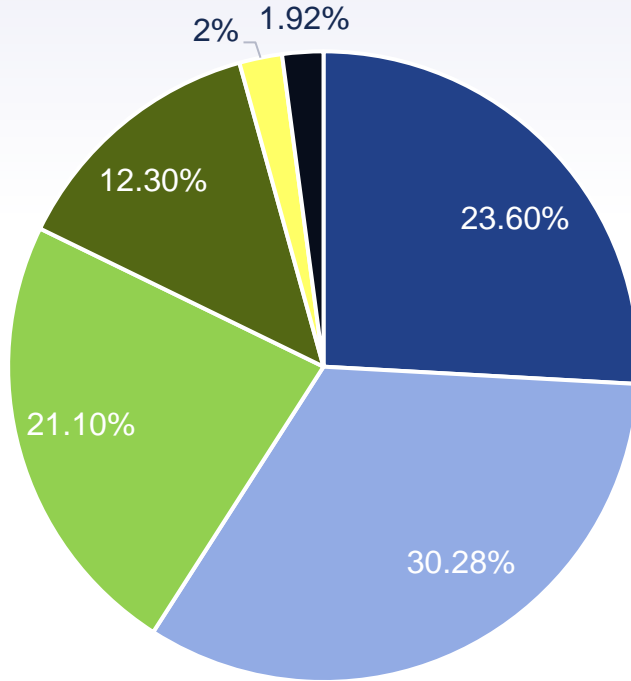


Chipboard

This is a pressed board product with a smooth surface. It is a strong and moisture resistant alternative to paper.



Sales by Market



- HVAC
- Appliance
- Automotive
- Electronic
- Medical/ Aerospace/ Other
- Industrial



CERTIFICATE OF REGISTRATION

This is to certify that

PSC Industries

3001 West Kentucky Street Louisville, Kentucky 40211 USA

Refer to Attachment to Certificate of Registration dated June 5, 2018 for additional certified sites

operates a

Quality Management System

which complies with the requirements of

ISO 9001:2015

for the following scope of certification

Convertors of Non-Metallic Products such as Foam, Fiberglass & Insulation for Industrial Applications. This registration is supported by the Corporate location at 3001 West Kentucky Street, Louisville, KY 40211 USA (File No. 1500190). The Corporate location performs the following functions: Purchasing, Laboratory Testing, Realization & Document Control (Sales & Quoting).

Certificate No.: CERT-0119266

File No.: 1500190

Issue Date: June 5, 2018

Original Certification Date: May 10, 2013

Certification Effective Date: May 24, 2018

Certification Expiry Date: May 23, 2021

Nicole Grantham
General Manager SAI Global Certification Services



Stay Up to Date with PSC

