

## O-RINGS

Santoprene™ is changing the landscape of seal performance and pricing! And SantopSeal is your one-stop-shop for O-rings. We can supply custom profiled Santoprene™ and EPDM sponge to keep parts air-tight and performing at their best.

SantopSeal provides premium quality O-ring seals and round cords which are widely used as an efficient, cost-effective sealing element for a great diversity of applications. We serve the OEM and replacement part markets with wide ranging specializations in electronic, aerospace, healthcare, construction, transportation, food processing, appliance, marine, and power generation applications.

Manufactured using various thermoplastic elastomer materials, our O-ring seals reliably seal all type of chemicals based on material selection. In elevated operating pressure environments, the addition of a backup ring will greatly increase the extrusion resistance of an O-ring. The O-ring is the most popular form of the seal as it is simple to install and needs little installation space. Given correct grooving and material choice, the seal can be used for a very long time as a fixed and as a moving part.

## ■ STANDARD & CUSTOM O-RINGS CAPABILITIES

01. Temperature Range -50F up to +250F
02. Free from Latex, PVC, Phthalates, and BPA
03. Regulatory Compliant for RoHS, REACH
04. FDA Non-Fatty Food Contact Rating NSF 51 Certified.
05. USP Class VI certified; EU 2003/11/EC; RoHS Compliant
06. Food-safe & FDA Approved
07. Free of PVC and Phthalates
08. Resistance Against Weather, Abrasion, Tears, Solvents, Oils, Gases, Ozone & UV.
09. Flame Retardant

## ■ APPLICATION BY INDUSTRIES

- Chemical Processing Industry
- Automotive
- Food Processing
- Medical Devices
- Pharmaceutical Industry
- Aerospace
- Oil, Gas, and Petrochemical
- Led Lights
- Wind and Solar Power Generation
- Plumbing
- Brewing Industry
- Transportation
- Electronics
- Drinking-Water Systems
- Fluid Power
- Aviation and Defense

## GET IN TOUCH

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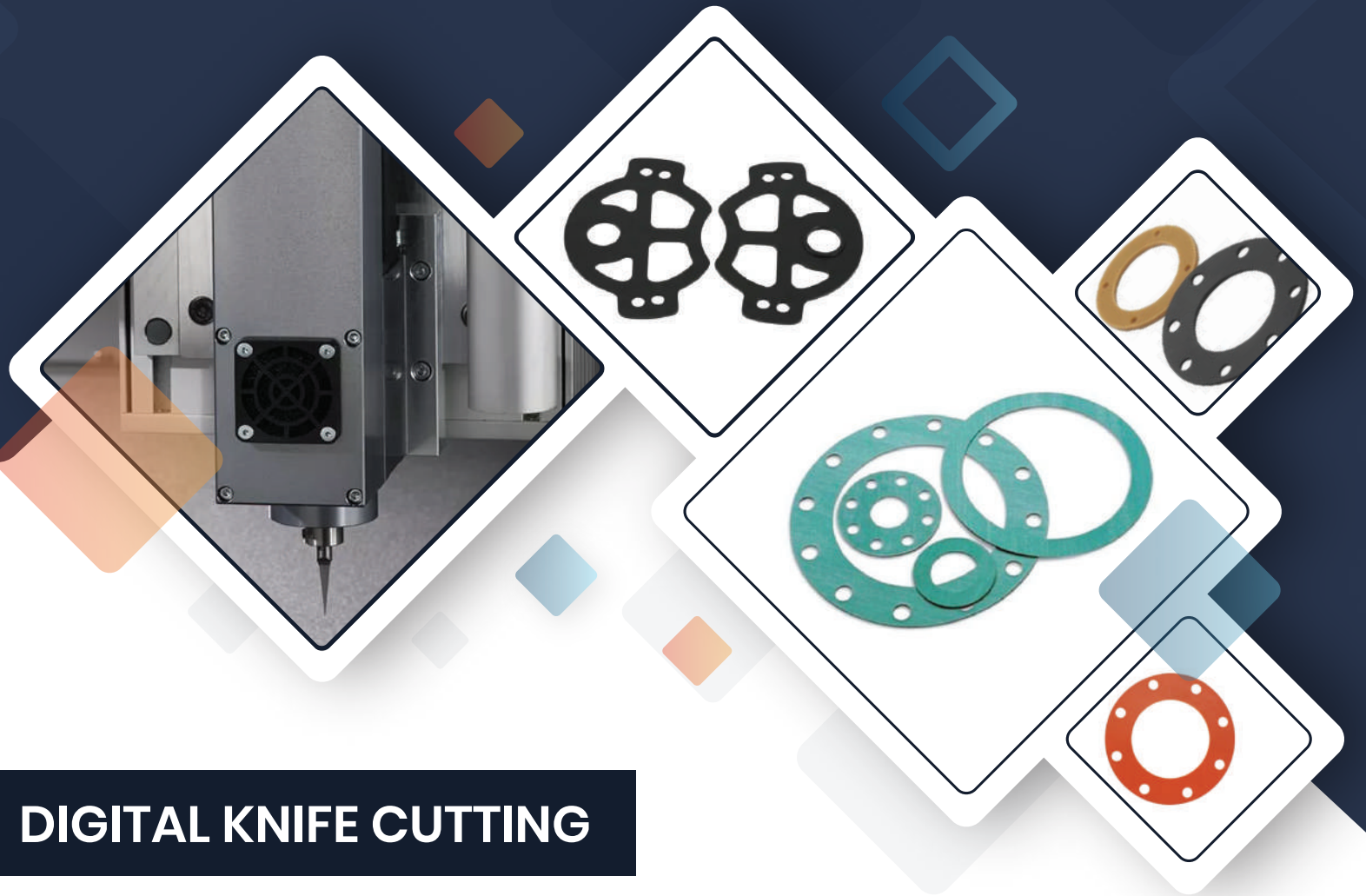


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## DIGITAL KNIFE CUTTING

There are many benefits of using digital and oscillating cutting machines and SantopSeal offers services on a vast array of materials.

Use our digital cutting technology to save money and time on tooling costs, manufacturing, management and storage during the production and development process.

- The digital cutting direction can be adjusted randomly to increase production, reduce losses, and increase the effective utilization of materials.
- Eliminate the difficulties that come with the cutting of complex patterns and templates.
- Eradicate the need for outsourcing, saving time and money.
- Improve turnaround; up to 70% faster production capabilities than manual processes.
- Improve the bottom line by reducing human error and material wastage (by up to 30%).

Our team has the knowledge to cut your parts quickly and efficiently with little to no waste. We are able to design, cut and deliver your parts with high precision and tight tolerance.

Our machines have the ability to cut many different types of materials, with various hardness or thickness.

Different materials are often combined, or laminated, together to make a finished article and we have the ability to cut most components. If you have a specific type of material you would like to die-cut, please let us know, as we have access to a huge range of materials from across the marketplace including (but not limited to):

- Butyl Rubber
- Cork
- EPDM Sponge/Solid Rubber
- Felt
- Fiber Gasket Material
- Fiber Glass
- Films
- Foam: Open and Closed Cell
- Foils
- Insulation
- Kapton
- Mylar
- Natural Rubber
- Neoprene
- Nitrile
- Plastics
- Santoprene TPV/TPE
- Silicone/FDA Approved Silicone
- Tapes
- Viton

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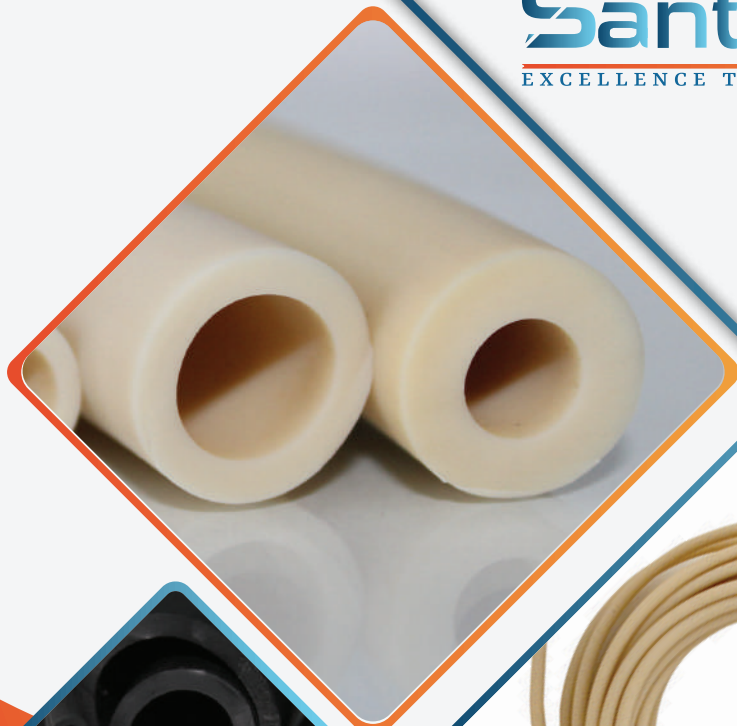
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## TUBING

Santoprene™ is changing the landscape of seal performance and pricing! And SantopSeal is your one-stop-shop for tubing. You can find SantopSeal's tubing being used in food, beverage and dairy production lines, in restaurants, on farms, and in hospitals, just to name a few.

This is tough tubing, showing good anti-aging properties in harsh weather, sunshine and saline applications. Its operational temperature range is wide and it exhibits excellent environmental stability under changing temperatures.

Santoprene™ exhibits many similar properties to Silicone tubing. Its characteristics include very good chemical resistance to fluids such as alcohol, ozone, aqueous systems and corrosive aqueous systems. Santoprene™ offers good mechanical properties under a wide range of operating temperatures. Highly durable, it is resistant to fatigue, ultraviolet, acids, alkalis, water, and most oils and lubricants. Furthermore, Santoprene® exhibits good flow consistency for peristaltic pump applications with low friction to abrasive materials. It performs well under vacuum conditions.

It is latex-free, RoHS compliant and the material contains no Substances of Very High Concern (SVHCs) as classified by the REACH environmental regulation.

We supply Santoprene tubing in three grades: Shore A hardnesses of 64 and 73, and also Food Grade 73A which meets FDA requirements. Please feel free ask for custom hardnesses.

## ■ SANTOPRENE™ TUBING

Santoprene® tubing, also known as thermoplastic rubber tubing, offers good mechanical properties under a wide range of operating temperatures.

- Highly Durable & Resistant to Fatigue
- Natural in Color
- UV & Ozone Resistant
- Meets FDA Standards
- Durometer Hardness (Shore A): 64 or 73
- Maximum Temperature Range: -75°F to 275°F
- Resistant to Acids, Alkalies & Most Oils & Lubricants


**Standard Packaging:** Reels or Cut to Customer Specifications.

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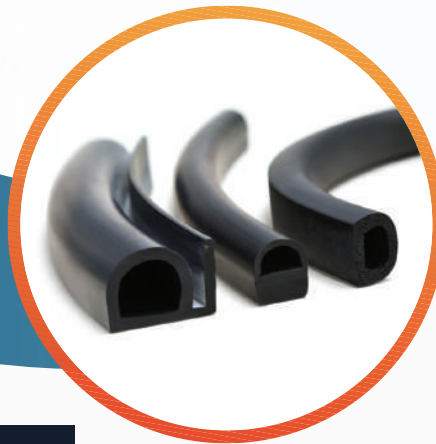
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## SEALS & GASKETS

Santoprene™ is changing the landscape of seal performance and pricing! And SantopSeal is your one-stop-shop for custom extrusions, gaskets, seals. We can supply custom profiled Santoprene™ and EPDM sponge to keep parts air-tight and performing at their best.

At SantopSeal, we understand that the quality of your finished product is dependent on the quality of the components you use and the materials used to manufacture them. We are committed to providing you excellent manufacturing and materials in a timely manner. Our turnkey services include complete finishing services, including close tolerance cutting, precision drilling, notching, punching, trimming, vulcanizing, stamping, and custom packaging.

We serve the OEM and replacement part markets with wide ranging specializations in electronic, aerospace, healthcare, construction, transportation, food processing, appliance, marine, and power generation applications.

We can provide custom compounds to meet industry and regulatory certifications and standards. Some of the standards our materials can meet include ASTM, SAE, FDA, USDA, UL, and NSF.

Rubber Extrusions can be spliced and vulcanized to form an endless variety of shapes. Santopseal's extensive splicing capabilities allow us to produce seals and gaskets for a broad array of aerospace, automotive, chemical processing, construction, food processing, industrial, oil and gas, wire and cable, as well as military applications.

Santoprene™ exhibits many similar properties of Silicone and can reduce your total system cost while maximizing quality. A few benefits include:

01. Enhanced Weather Resistance
02. Easy Heat-Welding
03. Noise Reduction
04. Energy Savings
05. Wide Temperature Range (-60° C to + 135° C) (-76° F to + 275° F)
06. Prevent Upgrade Costs for Remodeling Due to Weather
07. Low Compression and Tension Set
08. Good Tear Strength
09. Flame Retardant
10. Excellent Resistance to Weathering, Fatigue Chemicals, Mold, Leaks, Color Fading, UV, Ozone.
11. Custom Sizes, Shapes and Colors to Perfectly Fit All of Your Window and Door Installations.

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## SEALS - GASKETS - TUBING - O-RINGS SPONGE RUBBER - KNIFE CUTTING

SANTOPSEAL SPECIALIZES IN THE USE OF TPV/TPE AS A SOLUTION TO ALL YOUR SEALING NEEDS. USING SANTOPRENE™, WE SUPPLY A VAST ARRAY OF INDUSTRIES WITH A WIDE VARIETY OF AFFORDABLE AND CUSTOMIZABLE OPTIONS.



**EXCELLENCE THROUGH  
INNOVATION**

SantopSeal manufactures the things that keep things working. Our products help keep the rain out and the air in. Or we can help bring the rain in and keep the air out. From the doors and windows of your house to the appliances in it, across industries from agriculture to aerospace, medical to construction, and throughout the industrial, and consumer markets, Santoprene is a versatile, recyclable, strong, lightweight and affordable material with endless uses. SantopSeal is proud to be headquartered in the hardworking, industrious city of Pittsburgh, PA where we manufacture Santoprene products for use around the world.

## **Santoprene Benefits & Characteristics**

### ● **Excellent Performance**

Parts made with Santoprene™ TPVs are not only strong and flexible but also exhibit excellent aesthetics, sealing capabilities and maintain a high level of performance over the life of the part.

### ● **Flame Retardant**

Ratings: UI 94 V-o (except 85a is V-2) | UI 94 Sva | UV Resistant | UI (Fi) | Stabilized against copper and other metal-catalyzed degradation.

### ● **UV Resistant**

Designed for UV Resistance. UL listed grades are UL (fi) rated.

### ● **Medical Grade TPE Compliance**

Developed and tested for properties specifically required for medical and pharmaceutical applications. Consistently pure, high-quality materials that are easy to sterilize and free from Latex, PVC, Phthalates, and BPA. Regulatory compliant for RoHS, REACH, FDA, Prop 65, and SVHC. USP Class VI Certified.

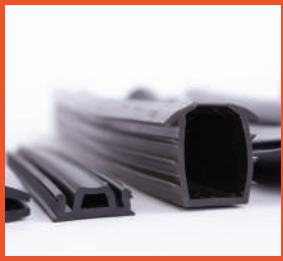
### ● **Reduced System Costs**

Santoprene™ TPVs offer ease of processing and design flexibility to help reduce costs in a wide range of applications.

### ● **Recyclable**

# Get Premium Industrial Services

We offer custom quotes, CAD drawings, and a wide variety of materials in any shape and every color. Contact our team today via web, email or phone and someone from our engineering or support team will be happy to answer any of your questions.



## SEAL AND GASKET

We serve the OEM and replacement part markets with wide ranging specializations in electronic, aerospace, healthcare, construction, transportation, food processing, appliance, marine, and power generation applications.

Santoprene® exhibits many similar properties of silicone tubing without the higher price tag. Available in general, medical, and FDA approved grades.

## TUBING

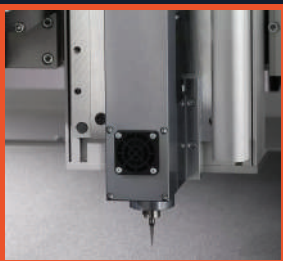


## O-RING

Reliable seal for fixed or moving parts. High chemical resistance and temperature range (-50° F to + 275° F).

## MEDICAL TUBING

Santoprene™ TPE medical tubing is a viable, safe, and cost-effective alternative to PVC, Silicone and TPU. Resistant to impact and abrasion without kinking.



## KNIFE CUTTING


Save time, material and money with SantopSeal's digital knife cutting services for tapes, cork, plastic, rubber, plastic, foam and more.


## EPDM SPONGE

EPDM sponge rubber compounds provide excellent resistance to water absorption, ozone, sunlight aging, low temperature, and compression set.



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## SPONGE RUBBER CUSTOM PROFILE

SantopSeal sponge EPDM rubber seals are available in a variety of specially designed shapes, with several height and width variations. Since each product is made from a custom formulated EPDM sponge rubber compound, they'll provide excellent resistance to water absorption, ozone, sunlight aging, low temperature, and compression set.

EPDM Sponge rubber seals are made from a durable EPDM foam rubber compound, with custom designs available. Our bulk manufacturing facility allows us to provide rubber extrusion at the lowest prices available on the market. Whether you'd like to drown out the noise, eliminate vibration, or protect your vehicle or home from the elements, our EPDM seals are the perfect solution. With an assortment of sizes and models, we can help you find the right shaped weather seal for any project or OEM parts.

# ■ ALL TYPES OF EPDM SPONGE RUBBER SEALS

In addition to our inventory of stock products, we also manufacture different shaped rubber seals in custom sizes and shapes. Our capabilities include:

- Shapes: B, D, E, H, O and P
- O-ring Sponge Rubber Seal
- Ribbed Style Sponge Rubber Seals
- Tubing
- Sponge Rubber Cords
- Adhesive-Backed Available
- U-Channel Strip
- Hollow Sponge Rubber Extrusions
- Foam and Sponge Rubber Profile
- Cut to Length
- Large Inventory of Tooling in Standard Shapes and Odd Sizes
- In-House Tooling for Unique Sizes and Shapes

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