



Special Colors



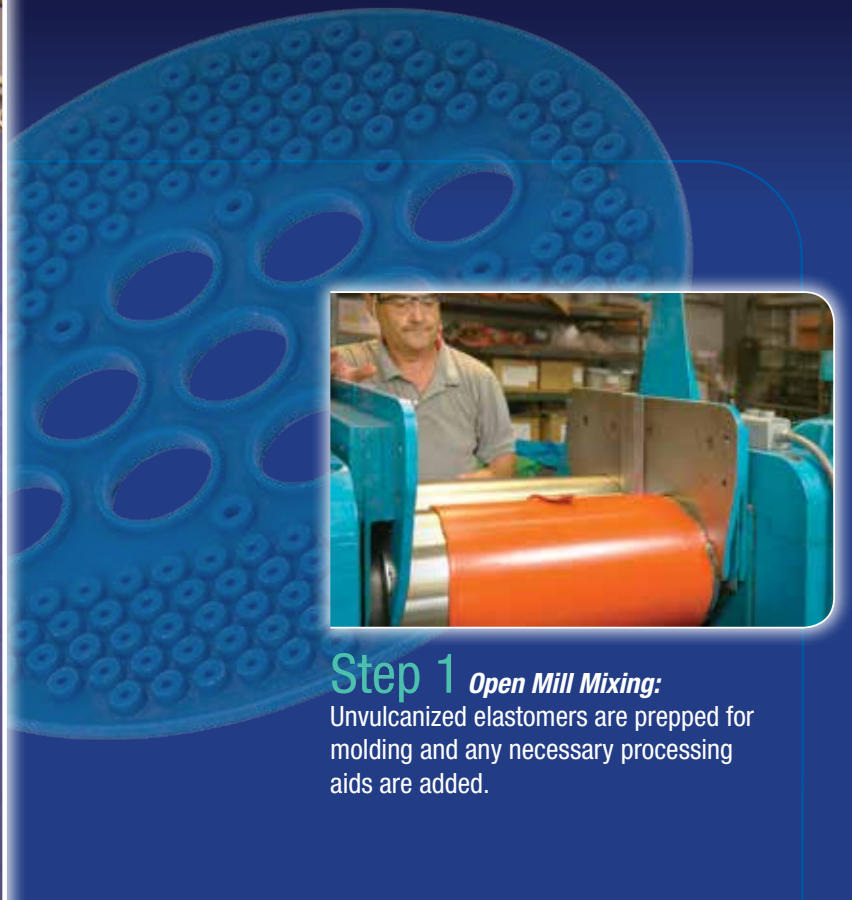
Small Parts



Boots & Bellows

QUALITY
FLEXIBILITY
EXPERIENCE

CENTURYRUBBER.COM › 800.782.2373



Step 1 *Open Mill Mixing:*
Unvulcanized elastomers are prepped for molding and any necessary processing aids are added.

When you're looking for a precision elastomer manufacturer, we know you've got a range of options. That's why we work harder to assure your complete satisfaction with every custom molded and die-cut part that we create for you. We've been in this business since 1973, so we can offer you a higher level of experience, technical expertise, extreme attention to detail, and value added services.

WHERE QUALITY STILL COUNTS.

Made with pride in the USA from domestically sourced materials. We also provide design and material selection assistance, rapid prototyping, and short and high volume production runs. All of our production is completed in California to ensure the highest quality at every stage of production.

Century Rubber proudly serves the aerospace, electronic, defense, medical, consumer, automotive and petroleum industries. Our clients depend on us for professionalism, consistent quality and outstanding customer service. We intend to do the same for you.

WE ARE ITAR REGISTERED AND CERTIFIED WITH THE UNITED STATES/ CANADA JOINT CERTIFICATION PROGRAM.

CERTIFIED TO AS 9100 / ISO9001

Anyone can promise quality. We deliver it. We use materials that meet or exceed government specifications, including Mil Spec and F.D.A. grades when required. Tight tolerances to .003" or less are our specialty.



FROM INITIAL IDEA TO DELIVERED PRODUCT



or



or



Step 2A Molding Press Production:

Pre-forms of unvulcanized elastomers are placed in heated molds. The molds are then placed in hot presses and compressed at predetermined pressures, temperatures and cycle times.

Step 2B Injection Press Production:

The rubber is fed in strips into the machine. Then it is injected into the mold. This type of process is typically used in high volume production.

Step 2C Die-Cutting:

The Clicker Press is used to “die cut” or stamp out flat rubber parts like gaskets.

A LARGER SELECTION OF MATERIALS

Parts can be produced in various colors, durometers and textures. Many of the following materials can be compounded to be self-lubricating for easier installation or to reduce drag. We also work with conductive materials for EMI/RFI shielding and keyboard/digital keypad devices.

- Silicone
- Fluorosilicone
- Fluoroelastomer (Viton®)
- EPDM
- Neoprene
- Butyl
- Isoprene
- Nitrile (BUNA-N)
- Natural rubber
- SBR
- Millable urethanes
- AFLAS
- and more



WHATEVER YOU NEED, WE CAN MAKE IT.

Every part we make is an original, fabricated to your exact specifications. So if you need a part that's never been made before, give us a call.

- Seals
- Bellows
- Vacuum suction cups
- Strain reliefs
- Grommets
- Duckbill & umbrella valves
- Bushings
- Boots
- Diaphragms
- Connector insulators
- Interfacial seals
- Die-cut gaskets
- Rollers
- Vibration & shock mounts
- Valve poppets
- Seal assemblies
- Switch covers and keypads
- Caps, plugs and ID tags
- EMI/RFI shielding

MORE THAN FABRICATION, YOUR FULL-SERVICE MANUFACTURING PARTNER.

By choosing Century for these additional services, you not only save time and money, you benefit by working with only one supplier from concept to delivery of your product.

- Grinding
- Anodizing
- Plating
- Powder coating
- Screen printing
- Polymer coating
- Testing
- Special packaging
- Bar coding
- Pressure sensitive adhesives
- Mold texturing
- Engraving
- Sub assemblies



WE'RE GREEN!

OUR FACILITY IS POWERED
WITH SOLAR PANELS



Custom Parts



Step 3 *Cryogenic Deflashing:*

After molding, some parts are placed in the Cryogenic Deflasher to remove excess rubber known as "flash". First the parts are frozen with liquid nitrogen until the flash becomes brittle. Then the parts are tumbled and blasted with a plastic shot media which causes the flash to break off. The result is a clean, flashless part.



Step 4 *Final Inspection:*

Parts that aren't cryogenically deflashed are manually trimmed prior to final inspection. Inspection procedures range from visual AQL to precise measurements and optical inspection, depending on the part. Special requirements, including part identification marking and packaging, are completed prior to shipping.



CENTURY RUBBER FAST FACTS

- AS 9100/ ISO 9001 certified
- Special colors and textures
- Dual durometers
- Value added services
- Conductive elastomers
- Rubber to metal bonding
- Design and material assistance
- Prototype through high volume runs
- CAD files accepted
- Tolerances to within .003" or less
- Product sizes ranging from under .062" to over 22.00"
- Established in 1973
- Parts and tools made with pride in U.S.A. from domestically sourced materials



CHEMICAL RESISTANCE GUIDE

	MATERIAL	CHEMICAL GROUP	GENERALLY RESISTANT TO	GENERALLY ATTACKED BY
NR, IR	Natural rubber, Isoprene	Polyisoprene	Most moderate wet or dry chemicals, organic acids, alcohols, ketones, aldehydes	Ozone, strong acids, fats, oils, greases, most hydrocarbons
SBR, BR	Butadiene, Styrene butadiene	Styrene, Butadiene Copolymer, Polybutadiene	Similar to natural rubber	Similar to natural rubber.
IIR	Butyl	Isobutylene, Isoprene, polymer	Water and Steam	Petroleum solvents, coal, tar, solvents, aromatic hydrocarbons
EPR, EPDM	Ethylene Propylene	Ethylene Propylene copolymer and terpolymer	Water, steam and brake fluids	Mineral oils and solvents, aromatic hydrocarbons
NBR	Nitrile (Buna-N)	Butadiene, Acrylonitrile copolymer	Many hydrocarbons, fats, oils, greases, hydraulic fluids, chemicals	Ozone, ketones, esters, aldehydes, chlorinated and nitro hydrocarbons
HNBR	Hydrogenated Nitrile	Butadiene, Acrylonitrile copolymer	Similar to NBR but with improved chemical resistance and higher service temperature	Ozone, ketones, esters, aldehydes, chlorinated and nitro hydrocarbons
ECO	Epichlorohydrin	Epichlorohydrin polymer and copolymer	Similar to nitrile with ozone resistance	Ketones, esters, aldehydes, chlorinated and nitro hydrocarbons
CR	Neoprene	Chloroprene polymer	Moderate Chemicals and acids, ozone, oils, fats, greases, many oils and solvents	Strong oxidizing acids, esters, ketones, chlorinated, aromatic and nitro hydrocarbons.
CSM	Hypalon®	Chlorosulfonated Polyethylene	Similar to Neoprene with improved acid and ozone resistance	Concentrated oxidizing acids, esters, ketones, chlorinated, aromatic and nitro hydrocarbons.
AU, EU	Urethane	Urethane Polymer	Ozone, hydrocarbons, moderate chemicals, fats, oils, greases	Concentrated acids, ketones, esters, chlorinated and nitro hydrocarbons.
Si, VMQ	Silicone	Organic silicone polymer	Moderate or oxidizing chemicals, ozone, concentrated sodium hydroxide	Many solvents, oils, concentrated acids, dilute sodium hydroxide
FSI, FVMQ	Fluorosilicone	Fluorinated organic silicone polymer	Moderate or oxidizing chemicals, ozone, aromatic chlorinated solvents, bases	Brake fluids, hydrazine, ketones
FKM #1	(Viton®) Fluoroelastomer	Standard fluorocarbon dipolymer 66% fluorine	All aliphatic, aromatic and halogenated hydrocarbons, acids, animal and vegetable oils	Ketones, low molecular weight esters and alcohols and nitro-containing compounds
FKM #2	(Viton®) Fluoroelastomer	Standard or specialty type fluorocarbon. Typically, > 66% fluorine	Same as FKM #1. Greater chemical resistance	Ketones, low molecular weight esters and nitro-containing compounds
FFKM	Perfluoroelastomer	Fully fluorinated fluorocarbon	Best fluid resistance of any elastomer	Fluorocarbon-containing refrigerants cause minor effects

GLOSSARY

COMPRESSION SET: The amount of permanent set a sample has after being compressed a stated amount (%) at a specific temperature for a given amount of time and recovery period.

DUROMETER (Shore): A measurement for determining the hardness of elastomer materials.

ELASTOMER: A synthetic rubber which, through vulcanization, curing or crosslinking, has changed to an elastic state.

ELONGATION: Percent (%) of original length a piece of material can be stretched lengthwise without tearing or remaining permanently distorted.

TENSILE STRENGTH: The maximum pounds per square inch (psi) a material can be stretched lengthwise without tearing.

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Seals



Rubber To Metal Bonding

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