The perfect balance of comfort, purity and strength in a natural rubber alternative.
Cariflex™ polyisoprene products are the ideal alternative to natural rubber for applications that demand extreme purity, exceptional protection and consistently high quality.

Cariflex products offer a pure and versatile option for manufacturing applications that require the high tensile strength and tear resistance of natural rubber without the impurities that cause discoloration, odor and allergic reactions.

Available in solid rubber or latex form, Cariflex products are a clean, high-performance alternative for medical supplies, consumer products and a myriad of other industrial applications.

When you need extreme purity, protection and performance, consider Cariflex products.
**Extreme Purity**
Cariflex™ polyisoprene products offer a pure alternative to natural rubber for a wide variety of uses.

- Suitable for medical and food contact applications
- Ideal for industrial uses requiring clean chemistries
- Matches or exceeds the performance of natural rubber
- Free of impurities that cause allergic reactions to natural rubber
- Environmentally preferred alternative that contains no chlorine or plasticizers

**Exceptional Protection**
Designed to provide a strong physical barrier, Cariflex products offer a blend of purity, protection and comfort that is unrivaled by natural rubber or other available synthetic polymers.

- Meets or exceeds the stringent U.S., EU and Japanese government requirements for protection in surgical gloves, condoms and medical stoppers
- Less susceptible to leaking and coring from needles in medical stopper applications
- Designed to balance strength with softness
- Delivers the perfect blend of comfort and protection in end uses such as surgical gloves

**Extraordinary Comfort**
Favored for its superior softness and elasticity, Cariflex products are the material of choice for a variety of dipped goods, including premium surgical gloves that have a comfortable fit and feel.

- Soft and pliable to conform to the surgeon’s hands
- Skin-like surface finish offers a natural feel and pleasant touch
- Unique softness extends to solid rubber products made from Cariflex
- Ideal for IV and medical bottle stoppers, catheters and needle shields

**Manufacturing Advantages**
Cariflex products have properties that are similar to those of natural rubber – without the impurities.

Manufacturing processes using Cariflex products, whether in solid or latex form, can be performed on existing production lines that were designed for natural rubber just by modifying compound recipes and process parameters. Because it contains no organic solvents, Cariflex polyisoprene latex is a clean alternative that can be substituted for natural rubber latex with minimal capital investment. A synthetic material produced in a precisely controlled environment, Cariflex products are free of the impurities and lot-to-lot variations that are inherent to natural materials. Our consistently high quality simplifies manufacturing processes and enhances quality control.
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Products and Grades

Solid Rubber
- Manufactured in Belpre, Ohio
- Shipped in 25-kg bales (55 pounds)
- Available in two grades: IR0307 and IR0310

With different molecular weight distributions, each grade performs differently during processing. Your Cariflex IR sales manager can assist you in selecting the grade that is best suited to your equipment and manufacturing processes.

Polyisoprene Latex
- Produced in Brazil and Japan
- Shipped in 200-liter (55 gallon) steel drums or 1,050-liter (275 gallon) IBC tote containers
- Available in two interchangeable grades: IR0401 BU (Brazil) and IR0401 SU (Japan)

Simply Better
Cariflex derives its inherent purity from our simple and highly efficient polymerization process. We are the only company in the world using an anionic solution polymerization process to produce this type of synthetic rubber. To further enhance quality and ensure its stability, the latex is pasteurized before shipment.

Compare Your Options, and Choose Cariflex™ Products
Cariflex products are superior, in many respects, to both natural rubber and synthetics produced using titanium/aluminum catalysts. Commonly known as Ziegler-Natta, catalysts of this type leave higher levels of metal residue in the rubber, resulting in a yellowish color and reduced stability that must be addressed by adding substantial levels of antioxidants. Ziegler-Natta catalysts also produce a significant amount of “gel” particles that can have an adverse effect on product quality.

Comparison between Cariflex polyisoprene rubber, produced in “Ziegler-type” process and natural rubber (NR)

<table>
<thead>
<tr>
<th></th>
<th>Cariflex IR</th>
<th>Ziegler IR</th>
<th>NR</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,4-cis content (%)</td>
<td>91</td>
<td>96</td>
<td>98</td>
</tr>
<tr>
<td>1,4-trans content (%)</td>
<td>1.5</td>
<td>0.5</td>
<td>1.0</td>
</tr>
<tr>
<td>3,4-vinyl content (%)</td>
<td>6.5</td>
<td>3.5</td>
<td>2</td>
</tr>
<tr>
<td>Macrostructure</td>
<td>linear</td>
<td>branched</td>
<td>branched</td>
</tr>
<tr>
<td>Mw distribution</td>
<td>narrow</td>
<td>broad</td>
<td>very broad</td>
</tr>
<tr>
<td>Green strength</td>
<td>low/medium</td>
<td>medium</td>
<td>high</td>
</tr>
<tr>
<td>Gel content</td>
<td>zero</td>
<td>medium</td>
<td>high</td>
</tr>
<tr>
<td>Ash</td>
<td>low</td>
<td>medium</td>
<td>high</td>
</tr>
<tr>
<td>Trace metals (ppm)</td>
<td>&lt;70</td>
<td>400–3,000 (inc. Al)</td>
<td>~1,000</td>
</tr>
<tr>
<td>LVN (dl/g)</td>
<td>6–10</td>
<td>2.5–4.5</td>
<td>6–7</td>
</tr>
<tr>
<td>Mw (kg/mol)</td>
<td>2,000</td>
<td>1,000</td>
<td>2,000</td>
</tr>
<tr>
<td>Mooney visc. (MU)</td>
<td>40–80</td>
<td>60–90</td>
<td>&lt;120</td>
</tr>
<tr>
<td>Flow (of compound)</td>
<td>excellent</td>
<td>good</td>
<td>medium/good</td>
</tr>
<tr>
<td>Color</td>
<td>white/clear</td>
<td>yellow/amber</td>
<td>dark</td>
</tr>
<tr>
<td>Smell</td>
<td>very low/low</td>
<td>low/medium</td>
<td>variable</td>
</tr>
</tbody>
</table>

Applications

Medical
- Surgical gloves
- Catheters
- Tube connectors
- Needle shields
- IV bag and medical bottle stoppers
- Cohesive bandages

Consumer and Industrial
- Electronics
- Condoms
- Footwear
- Food packaging adhesives
- Paint additives
- Resins
Company Profile

Kraton Corporation (NYSE: KRA) is a leading global producer of styrenic block copolymers, engineered polymers and chemicals derived from pine wood pulping co-products that are used to enhance the performance of end-use products that touch our daily lives. Through its Polymer segment, Kraton offers value-enhancing products that are used in a wide variety of applications including consumer and personal care items, adhesives and coatings, electronics, medical supplies, automotive components, polymer modification, compounding solutions, and paving and roofing materials. Through its Chemical segment, Kraton offers specialty chemicals that serve key adhesive, tire and road & construction end-use markets, as well as a broad range of end use applications served through its Chemical Intermediates business. Kraton offers its products to a diverse group of customers in over 70 countries worldwide.

Supply and Distribution

In response to strong and growing demand for Cariflex™ Polyisoprene Products, we have expanded both our U.S. plant in Ohio where Cariflex polyisoprene rubber is manufactured, and our Cariflex polyisoprene latex production facility in Brazil. With significantly increased capacity and an unmatched global service network, you can be assured of secure supplies and prompt delivery – within 72 hours – anywhere in the world.