



LaSalle College
Jakarta

SYNTHETIC RUBBER
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JEANE MULIANI

DO YOU RECOGNIZE THESE PRODUCTS?

I'm sure you guys are familiar with these products. Even if you don't own it, at least you have seen it somewhere. If you don't know already these products are made of rubber. Yes it is made of rubber. Synthetic rubber to be precisely





Synthetic rubber is a man-made rubber which is produced in manufacturing plants by synthesizing it from petroleum and other minerals. Synthetic rubber is basically a polymer or an artificial polymer.

The two synthetic rubber used in the fashion industry are neoprene and ariaprene. Louis Vuitton, Chanel, Michael Kors, Balenciaga, Lanvin, and Vera Wang have all used a synthetic rubber in their collections.

What is Synthetic Rubber?

NEOPRENE

Neoprene — is a family of synthetic rubbers that are produced by polymerization of chloroprene. Neoprene exhibits good chemical stability and maintains flexibility over a wide temperature range



CHARACTERISTICS

- WATER/WEATHER RESISTANCE
- HEAT RETENTION
- GOOD ELASTICITY
- CHEMICALLY STABLE
- ABRASION/TEAR RESISTANCE
- SOLVENT RESISTANCE
- OIL RESISTANCE

PRODUCTS

- WETSUITS/SCUBA GEAR
- SWIMSUITS
- ELECTRONICS CASES
- SPORTSWEAR/SPORTS BRAS
- LUNCH BAGS
- MOUSE PADS
- GLOVES

HAVE YOU EVER HEARD OF SCUBA?



Did you know that Scuba diving wetsuits are made of neoprene which is a synthetic rubber foam? If not, then, yes it is made of rubber!

OR MAYBE YOU ARE MORE FAMILIAR WITH THE TERM SCUBA MASK IN THIS PANDEMIC? IF YES, THEN I HAVE A BAD NEWS. SCUBA MASK IS NOT EFFECTIVE TO USE DURING THIS PANDEMIC SITUATION.



ATTENTION

SCUBA MASKS ARE TOO THIN AND ONLY CONSIST OF ONE LAYER WHICH IS NOT EFFECTIVE BECAUSE IT IS MADE OUT OF ELASTIC NEOPRENE. ITS PORES CAN ENLARGE

Ariaprene® was designed as a solution for innovators, designers, and technologists looking for a neoprene alternative. Ariaprene® foam core is constructed with physical blending, greatly reducing the environmental impact during manufacturing. It's eco-friendly, free of toxins, and unlike conventional neoprene, it won't leave hazardous traces behind after degradation.

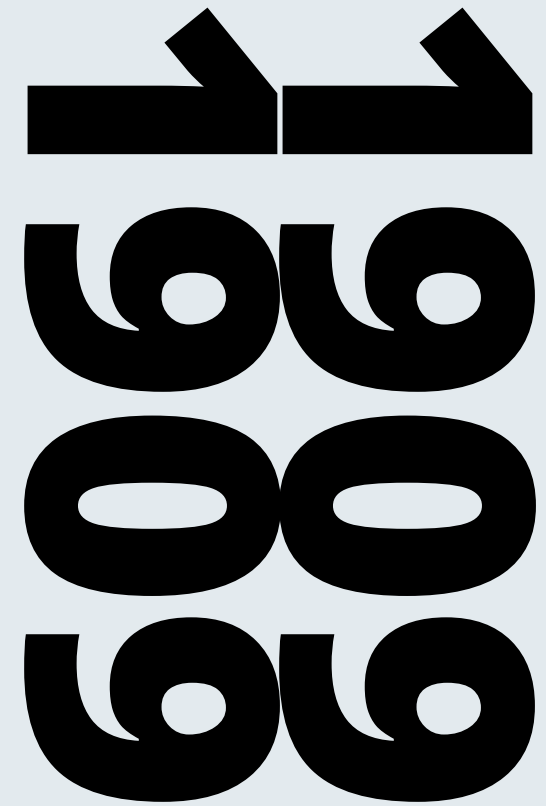
ARIAPRENE



FYI!

Be aware that rubber products that are made from new synthetic rubber are not environmentally friendly. They become friendlier when they are recycled

BRIEF HISTORY



The expanded use of motor vehicles and particularly motor vehicle tires, starting in the 1890's created increased demand for rubber. In 1909, a team headed by Fritz Hofmann working at the Bayer laboratory in Elberfeld, Germany succeeded in polymerizing isoprene, the first synthetic rubber.

By 1940, the United States was stockpiling natural rubber, effectively doubling its normal imported amount of around a half million tons a year.

In 1941, Japan occupied South East Asia cutting off supplies of natural rubber to the United States. In its first response to this supply crisis the U.S. government ordered the planting of tens of thousands of acres of guayule. This shrub which thrives in the western parts of the United States and in Mexico, also contains rubber latex.

It has the disadvantage of yielding the rubber only with difficulty; the plant must be ground up and extracted, thus requiring a constant supply of new plants.



ADVANTAGES ADVANTAGES ADVANTAGES

1. The cost advantage – Natural rubber is more expensive
2. Reliable – Has more constant quality so it can be more reliable.
3. It's temperature resistant
4. Not easily wrinkled

DISADVANTAGES DISADVANTAGES DISADVANTAGES

1. The stickiness
2. It is greasy and oily

CHARACTERISTICS



HOW TO TAKE

CARE

SYNTHETIC RUBBER APPAREL

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- 01** Wash frequently to remove body oils and other soil
- 02** Hand wash in warm water and mild soap. Rinse thoroughly and air dry.
- 03** Do not wring or dry in a dryer.
- 04** Do not use ointments or oils under the support.
- 05** Do not dry clean or expose to heat or sunlight for extended periods of time.
- 06** May be used in water and chlorinated pools, but fading of colors will occur. Rinse well with fresh water immediately after use.

HOW TO TAKE

CARE

What is the difference between Natural and Synthetic Rubber?

NATURAL RUBBER

Natural rubber is produced from plants and is classified as a polymer. The natural rubber latex is easily transportable and stored.

BENEFITS ; Natural rubber offers high tensile strength and holds its shape and provides flexibility. It also tears resistant against chips and tearing

SYNTHETIC RUBBER

Synthetic rubber is human-made that can be made with impurities to tailor the specific needs with physical and chemical properties.

BENEFITS; Synthetic rubber costs less than natural rubber. It also has more reliability with constant quality and temperature resistance. Synthetic rubber is tailored to meet specific performance needs.

