

Nitrile RUBBER SHEET – White (FDA)

Product Overview

White FDA Nitrile Rubber Sheet is a food-contact suitable nitrile elastomer designed for applications requiring resistance to oils, fats, greases, and hydrocarbons while maintaining a clean, non-marking white appearance. Compared with standard black nitrile rubber, the white compound is formulated for hygienic environments and food-handling applications.

This material offers good mechanical strength, oil resistance, and chemical resistance, making it suitable for use in food processing, pharmaceutical, and general industrial applications where oil resistance and FDA compliance are required.



Material Specification

- **Polymer:** Nitrile Butadiene Rubber (NBR)
- **Grade:** FDA Compliant
- **Colour:** White
- **Surface Finish:** Smooth on both sides
- **Temperature Range:** -25 °C to +100 °C

Standards & Compliance

White FDA Nitrile Rubber Sheet is manufactured from an NBR compound formulated to comply with the requirements of **FDA 21 CFR 177.2600** for rubber articles intended for repeated contact with food.

In accordance with FDA 21 CFR 177.2600, finished rubber articles intended for food-contact service should be thoroughly cleaned prior to their initial use. Final suitability for specific food-

Disclaimer: All information provided is based on typical material properties and is intended as a general guide only. Final material selection should be confirmed by the end user for suitability in the intended application.

contact applications, including operating conditions and cleaning procedures, remains the responsibility of the end user.

Key Features & Benefits

- FDA-compliant nitrile rubber compound
 - Good resistance to oils, fats, fuels, and greases
 - Good resistance to dilute acids and alkalis
 - Good mechanical strength and wear resistance
 - Clean, non-marking white surface
 - Suitable for hygienic and food-handling environments
 - Cost-effective food-grade elastomer solution
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Physical Properties

Property	Typical Value	Test Method
Specific Gravity	1.45 ± 0.05 g/cm ³	ASTM D297
Hardness	65 ± 5 Shore A	ASTM D2240
Tensile Strength	8 MPa	ASTM D412
Elongation at Break	350 %	ASTM D412
Compression Set (70 °C × 22 hrs)	40 %	ASTM D395
Tear Resistance	20 kN/m	ASTM D624

Values shown are typical and not intended for specification purposes.

Typical Applications

- Food processing and handling equipment
 - Seals and gaskets for food-contact applications
 - Pharmaceutical and medical equipment components
 - Oil-resistant gaskets in hygienic environments
 - Rubber pads, strips, and protective linings
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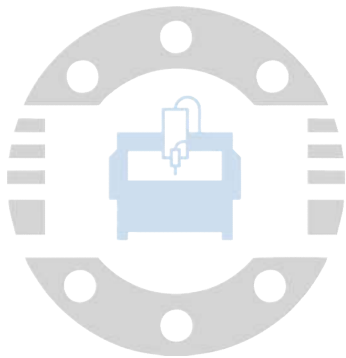
- General industrial applications requiring FDA-compliant NBR
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Manufacturing & Cutting Capability

- Available in sheet form and custom-cut components
 - Suitable for CNC oscillating knife cutting
 - Die-cutting and precision cutting available
 - Custom gasket shapes, sizes, and thicknesses available
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Storage & Handling

Store in a cool, dry place away from direct sunlight, ozone sources, oils, fuels, and extreme heat to maintain optimal service life.



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