

BLACK NITRILE RUBBER SHEET (NBR)

Product Overview

Black Nitrile Rubber Sheet (NBR) is a versatile industrial elastomer designed for applications requiring excellent resistance to oils, fuels, greases, and hydrocarbons. It offers a balanced combination of mechanical strength, sealing performance, and cost efficiency, making it one of the most widely used rubber materials across industrial sectors.

Our NBR sheets are suitable for gasket cutting, sealing strips, pads, and general-purpose rubber components, and are fully compatible with CNC oscillating knife cutting and die-cutting processes.



Material Specification

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

Key Features & Benefits

- Excellent resistance to petroleum oils, mineral oils, fuels, and greases
- Good resistance to dilute acids and alkalis
- Strong mechanical strength with good tensile properties
- Reliable sealing performance under moderate pressure
- Good wear and abrasion resistance for industrial use
- Suitable for indoor and limited outdoor applications

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.

- Easy to fabricate, cut, and machine
- Cost-effective alternative to higher-grade elastomers

Physical Properties

Property	Typical Value	Test Method
Specific Gravity	1.35 ± 0.05 g/cm ³	ASTM D297
Hardness	65 ± 5 Shore A	ASTM D2240
Tensile Strength	8 MPa	ASTM D412
Elongation at Break	300 %	ASTM D412
Compression Set (70 °C × 22 hrs)	30 %	ASTM D395
Tear Resistance	25 kN/m	ASTM D624

Values shown are typical and not intended for specification purposes.

Typical Applications

- Oil-resistant flange gaskets
- Pump and valve gaskets
- Automotive sealing components
- Industrial washers and pads
- Fuel and oil system seals
- General-purpose rubber linings
- Machinery and equipment maintenance

Manufacturing & Cutting Capability

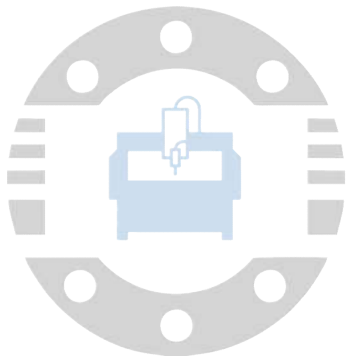
- Available in sheet form and custom-cut gaskets
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- CNC oscillating knife cutting
 - Die-cutting and prototype development
 - Custom shapes, sizes, and thicknesses available
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Storage & Handling

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



INDUSTRIAL
EXPERTS
GASKETS AND CUTTING SOLUTIONS

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