

## Closed Cell Neoprene

### Short Description (Beside Product Image)

Closed cell neoprene rubber sheet designed for thermal insulation, moisture resistance, vibration damping, and sealing applications. Manufactured from high-quality synthetic chloroprene rubber with uniform closed-cell structure to provide excellent durability and environmental resistance.

### Product Overview

Closed cell neoprene is a flexible, lightweight elastomeric material with a non-porous cell structure that prevents water absorption and air penetration. It provides effective thermal insulation, sound absorption, and cushioning performance in industrial and commercial applications.

The material is resistant to oils, chemicals, weathering, ozone, and UV exposure, making it suitable for indoor and outdoor environments. Supplied in rolls, sheets, or custom-cut formats to meet project requirements.

### Quick Specifications

#### Material Composition

- Chloroprene Rubber (CR) – Closed Cell Structure
- Other polymer blends available upon request

#### Density Range

- Typically 60 – 200 kg/m<sup>3</sup> (subject to grade)

#### Thickness Range

- Available from 3 mm up to 50 mm
- Custom thicknesses available upon request

#### Surface Finish

- Smooth skin finish
- Fabric-faced (optional)
- Adhesive backing (optional)

#### Temperature Resistance

- Typical operating range: -40°C to +100°C

#### Customisation Availability

- Custom sheet sizes

- Die-cut gaskets and pads
- Adhesive backing application
- Private-label packaging
- Bulk export configurations

## Technical Specification Sheet

### Closed Cell Neoprene – Technical Data

#### *Product Description*

Flexible elastomeric insulation and sealing material with a uniform closed-cell structure designed to resist moisture ingress and provide thermal and acoustic insulation.

#### *Physical Properties (Typical Values)*

- Density: 60 – 200 kg/m<sup>3</sup>
- Water Absorption: < 5% (closed cell structure)
- Thermal Conductivity: Approx. 0.035 – 0.050 W/mK
- Compression Set: Controlled as per grade specification
- Flame Retardancy: Available as per requirement

#### *Manufacturing Process*

- Polymer compounding
- Controlled foaming process
- Vulcanization
- Sheet cutting and roll forming

#### *Dimensional Control*

Manufactured to specified tolerances for thickness, density, and sheet dimensions as per approved technical requirements.

#### *Testing & Inspection*

- Density verification
- Thickness measurement
- Visual surface inspection
- Water absorption testing (where applicable)
- Material certification available upon request

### *Typical Applications*

- HVAC insulation systems
- Pipe lagging and duct insulation
- Gaskets and sealing strips
- Vibration isolation pads
- Marine and automotive insulation
- Construction expansion joints

### *Installation Note*

Proper surface preparation and correct adhesive selection are required for optimal performance. Installation method depends on application, temperature conditions, and environmental exposure.

### *Export & Packaging*

Available in:

- Standard rolls
- Cut sheets
- Die-cut components
- Private-label cartons
- Bulk export quantities

Manufactured strictly to approved specifications or customer drawings. Available for OEM programmes, distributor supply, and containerised export shipments.

Discuss bulk supply or OEM programmes

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