Technical Data Sheet

Potable Water EPDM RUBBER SHEET

Product Overview

Potable EPDM Rubber Sheet is a high-quality EPDM elastomer specifically formulated for applications involving contact with drinking water. This material offers excellent resistance to weathering, ozone, UV exposure, heat, and water-based media while maintaining good elasticity and mechanical strength.

Potable EPDM Rubber Sheet is independently tested and approved for use in potable water systems. It is widely used in sealing applications where compliance with drinking water standards is required and long-term exposure to water and environmental conditions is expected.

Compliance & Certification

Tested and certified by the Australian Water Quality Centre

- **Approved Standard:** AS/NZS 4020:2018
- conforms to the requirements of WSA 109 2011 Table 2.1

Material Specification

- **Polymer:** Ethylene Propylene Diene Monomer (EPDM)
- **Grade:** Potable Water Approved
- **Colour:** Black
- **Surface Finish:** Smooth on both sides
- **Temperature Range:** -30 °C to +120 °C

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.

Key Features & Benefits

- Approved for use in contact with drinking water
- Excellent resistance to weathering, ozone, and UV exposure
- Good heat resistance for continuous service in water systems
- Good resistance to corrosion and water-based chemicals
- Good elasticity and mechanical strength
- Suitable for long-term indoor and outdoor use
- Low maintenance material with long service life

Physical Properties

Property	Typical Value	Test Method
Polymer	EPDM	
Polymer Content	100%	
Specific Gravity	1.14 g/cm³	ASTM D297
Hardness	65 ± 5 Shore A	ASTM D2240
Tensile Strength	11 MPa	ASTM D412
Elongation at Break	350 %(min)	ASTM D412
Compression Set 72 hr @ 23 °C	12.5 % Max	ASTM D395
Compression Set 24 hr @ 70 °C	18% Max	ASTM D395
Heat Age Properties 7 days @ 70°C Hardness Change Tensile Change Elongation Change	 +3° Shore A +8.5% (ave) -14	ASTM D573
Volume Change 7 days @ 70°C (In distilled water)	+3%	ASTM D471

Values shown are typical and not intended for specification purposes.

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Typical Applications

- Potable water flange gaskets
- Drinking water pipelines and fittings
- Water treatment and filtration systems
- Seals and washers for water storage tanks
- Council and industrial water infrastructure
- Plumbing and water distribution systems

Manufacturing & Cutting Capability

- Available in sheet form and custom-cut potable water gaskets
- Suitable for CNC oscillating knife cutting
- Die-cutting and precision cutting available
- Custom shapes, sizes, and thicknesses available

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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