



## Technical Data Butyl Rubber Geomembrane

Skellerup Containment Systems Butyl geomembrane is manufactured from a Butyl - EPDM rubber polymer blend. Butyl rubber is a copolymer of isobutylene with small amounts of isoprene, two gases derived from petroleum distillation. The Butyl rubber molecule has a highly saturated structure, and therefore is resistant to heat ageing processes, sunlight and ozone and has exceptionally high resistance to diffusion by gases and liquids (other than mineral oils and solvents).

EPDM is an inert polymer made by co-polymerising Ethylene and Propylene with small amounts of another polymer. EPDM's excellent weathering properties provide increased durability compared to pure Butyl membranes.

Physical Property	Test Method	Spec	Typical
Hardness, Shore A	ASTM D 2240	68 +/- 5	Pass
Tensile Strength, MPa	ASTM D 412	8.3 Mpa min	9.2 MPa
Elongation, Ultimate, %	ASTM D 412	300 min	441
Resistance to Heat Ageing Properties after 166 hours @ 116°C	ASTM D 573		
Tensile Strength, psi	ASTM D 412	6.2 min	8.6
Elongation, Ultimate, %	ASTM D 412	210 min	311
Ozone Resistance Condition after exposure to 50 ppm Ozone in air for 7 days @ 40°C Specimen is at 25% strain	ASTM D 1149	No Cracks	No Cracks
Resistance to Water Absorption After 166 hours in immersion @ 70°C Change in mass, %	ASTM D 471	4 max	3.2
Water Vapour Permeance At 23°C ± 2°C, 45% RH, perms	ASTM E 96	0.06 max	0.02
Specific Gravity, typical	ASTM D 297		1.2 Black 1.3 Colour
Thermal Conductivity, typical kcal/hr/m/°C			0.27
Temperature Range Remains flexible from			-50°C to +110°C

## Dimensions

Gauge	Roll Width	Roll Length	Weight
1.0 mm	1.250 m	25 m	1.24 kg/m <sup>2</sup>
1.5 mm	1.250 m	20 m	1.86 kg/m <sup>2</sup>
2.0 mm	1.350 m	20 m	2.48 kg/m <sup>2</sup>

## Liner Fabrication

Prefabricated panels are constructed to the required dimensions using reliable factory-vulcanised seams.

Panel dimensions up to 20 m x 20 m.

*This data is provided for informational purposes only and is not intended as a warranty or guarantee. Skellerup Containment Systems assumes no responsibility in connection with the use of this data. These values are subject to change without notice. Please contact us for updated information.*

When reliability matters