

# mandals Aquaman



*Mandals Aquaman is an extremely hardwearing hose for transfer of drinking water or other liquids intended for human consumption.*

Mandals Aquaman is made from extruded thermoplastic polyether based polyurethane (TPU) with excellent wear & tear properties. The reinforcement is made from circular woven filament polyester yarn. The “extrusion through the weave” production method gives a very strong bonding between cover and lining as well as firmly encapsulating the woven polyester.

The hose has the following certifications:

- WRC approved to BS 6920, UK
- KTW approval, Germany
- W270 approval, Germany
- NSF 61 listing, USA

The hose has high resistance against commonly used chemicals and UV barriers to prevent

damage due to UV radiation. The excellent abrasion resistance of the TPU material enables the use of very thin, lightweight hose with large diameters to be quickly and easily deployed in disaster areas without risk of damage to the hose. The circular weaving of the filament polyester yarn ensures interlocking of the reinforcing yarns and increases both tensile strength and pressure rating. The interlocking weave ensures that the extension in length does not exceed 2% when pulled or pressurized. This keeps “snaking” of the hose at a minimum.

Mandals Aquaman can operate in a temperature range from -50°C to +75°C. It can withstand intermittent use up to +80°C. Standard lengths up to 200 meters. For diameter lower than 6 inches, longer lengths on request.

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Inches	Inner Diameter	Wall Thickness	Weight/Meter	Burst Pressure
1	25,4 mm+1,3	1,6 mm	0,16 kg	5,0 MPa
1 1/2	38,0 mm+1,6	1,8 mm	0,28 kg	4,5 MPa
1 3/4	45,0 mm+1,8	2,0 mm	0,33 kg	4,5 MPa
2	51,0 mm+2,0	2,0 mm	0,38 kg	4,5 MPa
2 1/2	65,0 mm+2,0	2,2 mm	0,50 kg	4,2 MPa*
3	76,0 mm+2,0	2,4 mm	0,70 kg	4,2 MPa
3 1/2	90,0 mm+2,0	2,8 mm	0,93 kg	4,0 MPa
4	102,0 mm+2,5	2,9 mm	1,05 kg	3,6 MPa
4 1/2	114,0 mm+2,5	2,9 mm	1,18 kg	3,4 MPa
5	127,0 mm+2,5	2,9 mm	1,40 kg	3,0 MPa
6	152,0 mm+3,0	3,0 mm	1,65 kg	3,2 MPa
8	203,0 mm+3,0	3,0 mm	2,20 kg	2,6 MPa
10	254,0 mm+4,0	3,2 mm	2,85 kg	2,0 MPa
12	305,0 mm+5,0	3,3 mm	3,50 kg	1,5 MPa

\* also available in 63,0 mm version