



*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:

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

The hose has high resistance against commonly used chemicals. The excellent abrasion resistance of the

TPU material enables the use of very thin, lightweight hoses with large diameters to be quickly and easily deployed in disaster areas without risk of damage to the hoses. 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. Longer lengths on request for diameter smaller than 6 inches.

## Mandals Aquaman

Inner Diameter		Wall Thickness		Weight		Burst Pressure	
inch	mm	inch	mm	lbs/ft	kg/m	psi	bar
1	25,4 +1,3	0,06	1,6	0,11	0,16	725	50
1 1/2	38,0 +1,6	0,07	1,8	0,19	0,28	650	45
1 3/4	45,0 +1,8	0,08	2,0	0,22	0,33	650	45
2	51,0 +2,0	0,08	2,0	0,25	0,38	650	45
2 1/2	65,0 +2,0	0,09	2,2	0,33	0,50	600	42
3	76,0 +2,0	0,11	2,4	0,47	0,70	600	42
3 1/2	90,0 +2,0	0,11	2,8	0,62	0,93	580	40
4	102,0 +2,5	0,11	2,9	0,70	1,05	520	36
4 1/2	114,0 +2,5	0,11	2,9	0,79	1,18	500	34
5	127,0 +2,5	0,11	2,9	0,94	1,40	435	30
6	152,0 +3,0	0,12	3,0	1,11	1,65	460	32
8	203,0 +3,0	0,12	3,0	1,48	2,20	380	26
10	254,0 +4,0	0,13	3,2	1,91	2,85	290	20
12	305,0 +5,0	0,13	3,3	2,35	3,50	220	15

42 bar on request

30 bar on request

Maximum recommended Working Pressure: 50 % of the listed values - for temporary use. To obtain maximum lifetime of the hose, it is recommended that the Working Pressure or the Working Tensile Stress do not exceed 1/3 of the listed values.