



## Industry

General Lay-flat Hose



**Ultraman is designed as a lightweight transfer hose, meant for all-around use in mining, energy, and agriculture. Easy handling and a long service life make it very cost-effective.**

Ultraman has full-diameter recovery after pressure release and is resistant to a wide range of chemicals. To prove that this hose can operate in the most demanding situations, we have developed it with excellent hydrolysis and fungus resistance, along with great resistance to weather, UV, and Ozone. Ultraman is leakproof and tested in sections up to 200m.

## Key Features

- Full diameter recovery after pressure release.
- Excellent hydrolysis and fungus resistance.
- Resistance to a wide range of chemicals.
- Excellent UV, Ozone and weathering resistance.
- Leak proof tested section lengths up to 200 mts.
- Operating temperature from -50°C to +75°C (-58°F to +167°F) for pure water.

## Design

- Thermoplastic polyether based polyurethane (TPU).
- Extrusion through a circular woven jacket.
- Excellent adhesion between cover and weave.

## Advantages

- Excellent hydrolysis and fungus resistance.
- High diameter and extension stability.
- Resistance to a wide range of chemicals (Ref. chemical list). Excellent UV and weathering resistance.
- Longer length (> 200m) on request for diameter up to 6 inches.



## Ultraman (Technical data)

ISSUE 3.0 - 01.03.21

Inner diameter		Wall Thickness		Weight		Burst Pressure		Tensile Strength	
Inch	mm	Inch	mm	Lbs / ft	Kg / m	Psi	Bar	X 1000 lbs	Tons
2 1/2"	65.0 + 2.0	0.11	2.8	0.44	0.66	810	56	14.3	6.5
3"	76.0 + 2.0	0.11	2.8	0.54	0.84	780	54	17.4	7.9
3 1/2"	90.0 + 2.0	0.11	2.9	0.66	0.98	620	43	20.0	9.1
4"	102.0 + 2.5	0.13	3.2	0.80	1.20	610	42	22.2	10.1
4 1/2"	114.0 + 2.5	0.13	3.2	0.93	1.39	535	37	23.8	10.8
5"	127.0 + 2.5	0.13	3.2	1.02	1.52	505	35	26.4	12.0
6"	152.0 + 3.0	0.13	3.2	1.16	1.73	435	30	32.8	14.9
7"	178.0 + 3.0	0.13	3.2	1.37	2.05	390	27	37.6	17.1

**NOTE:** Minimum safety factor BP/WP is 2:1 (50%) for all non-hazard and/or non-flammable liquids.

For questions about chemical resistance please check Download - Chemical Resistance or contact your local distributor or contact sales@mandals.com

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