



Mandals Ultraman is an extremely hardwearing, multi purpose industrial hose for use in abrasive environments.

Mandals Ultraman 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 high resistance against commonly used chemicals and has excellent resistance to UV radiation, hydrolysis and fungus degradation. The abrasion resistance of the TPU is one of the highest available, making the hose ideal for use in rugged terrain or in applications where the strength and abrasion resistance either for the cover or lining is essential.

The circular woven filament polyester reinforcement ensures very high tensile strength combined with maximum 2 % extension in length at recommended working pressure. This prevents “snaking” of the hose when pressurized. Similarly, the interlocking weave gives unequalled high pressure ratings.

Mandals Ultraman 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 Ultraman

Inner Diameter		Wall Thickness		Weight		Burst Pressure		Tensile Strength*	
inch	mm	inch	mm	lbs/ft	kg/m	psi	bar	lbs	kg
2	51,0 +2,0	0,10	2,6	0,34	0,51	1015	70	11 800	5 400
2 1/2	65,0 +2,0	0,10	2,6	0,43	0,64	725	50	14 400	6 500
3	76,0 +2,0	0,11	2,8	0,50	0,75	700	48	17 400	7 900
3 1/2	90,0 +2,0	0,11	2,9	0,64	0,95	580	40	20 000	9 100
4	102,0 +2,5	0,12	3,0	0,74	1,10	525	36	22 000	10 100
4 1/2	114,0 +2,5	0,12	3,0	0,87	1,30	495	34	23 800	10 800
5	127,0 +2,5	0,12	3,0	0,99	1,48	435	30	26 400	12 000
6	152,0 +3,0	0,12	3,0	1,11	1,65	460	32	32 800	14 900
8	203,0 +3,0	0,12	3,0	1,48	2,20	377	26	41 600	18 900
10	254,0 +4,0	0,13	3,2	1,91	2,85	305	21	52 100	23 700
12	305,0 + 5,0	0,13	3,3	2,35	3,50	220	15	84 000	38 200

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.

* Total theoretical longitudinal strength.