Superman HVT
Datasheet

mandals since 1775
A Michelin Group Company

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Mandals Superman High Volume Transfer (HVT) is our market-leading all-purpose hose for fluid transfer. Not only is Superman HVT designed for higher working pressures when transporting fluids, the hose is also heavily reinforced with exceptional resistance to abrasion and cutting.

The Mandals Superman HVT series is superior in properties when compared to Ultraman HVT.

Primary Uses & Applications

- Heavy-duty firefighting systems such as fire monitors.
- Emergency water removal during floods.
- Industrial plants.
- Refineries.
- Tank farms.
- Tank to ship vessels and vice versa.
- Long-distance water transfer.
- Mining.
- Supply hose for large agricultural systems.

Construction

- A high tensile polyester reinforcement jacket enveloped by a high-grade thermoplastic polyurethane (TPU) lining and cover material.
- The TPU is extruded through a circular woven reinforcement, creating a strong bond between cover and lining that prevents delamination, as well as firmly encapsulating the reinforcing polyester yarn.

Features

- Resistant to a wide range of chemicals.
- High diameter stability and diameter recovery after pressure release.
- Excellent hydrolysis and fungus resistance.
- Superior UV, Ozone, and weathering resistance.
- Excellent abrasion and puncture resistance.

Properties

- Length up to 200m. Longer lengths on request on certain sizes.
- Color options: Black (standard).
- Different coupling options available.
- Operating temperature from -50°C to +75°C (-22°F to +167°F) for pure water.

Superman HVT

Article Number	Inner Diameter		Wall Thickness		Weight		Maximum Working Pressure[1]		Burst Pressure		Nom. Tensile Strength[2]	
-	inch	mm	inch	mm	lbs/ft	kg/m	psi	bar	psi	bar	X1000 lbs	X1000 kg
ULY127	**5**	127.0 + 2.5	0.14	3.5	1.07	1.60	325	22.5	650	45	34.8	15.8
ULY152	**6**	152.0 + 3.0	0.15	3.7	1.34	2.00	325	22.5	650	45	44.0	21.0
ULY178	**7**	178.0 + 3.0	0.16	4.0	1.61	2.40	305	21	610	42	70.0	31.8
ULY203	**8**	203.0 + 3.0	0.17	4.2	2.15	3.20	305	21	610	42	81.5	37.0
ULY254	**10**	254.0 + 5.0	0.17	4.3	2.73	4.10	260	18	520	36	101.0	46.0
ULY305	**12**	305.0 + 5.0	0.20	5.2	3.69	5.50	300	20	600	41	154.0	70.0

Note: [1]Minimum safety factor burst to maximum working pressure is 2:1 for non-hazardous/non-flammable liquids. For questions about chemical resistance please check mandals.com/support. [2]Calculated value. Use a reduction factor of 0.75 for realistic maximum tensile strength values.