

# FACT FILE



## Technical Data Sheet EIL0103 Issue 1.0

Typical Mechanical Properties for Canvas / Nylon Inflatable Bladders

<u>Pipe Size</u>	<u>Proofed Canvas/Grey Nylon</u>	<u>Blue/Green Heavy</u>	<u>Orange Extra Strong</u>
2" (50mm)	16.2PSI (1.10 Bar)	32.3PSI (2.20 Bar)	51.5PSI (3.50 Bar)
3" (75mm)	14.7PSI (1.00 Bar)	29.4PSI (2.00 Bar)	47.0PSI (3.20 Bar)
4" (100mm)	13.2PSI (0.90 Bar)	26.5PSI (1.80 Bar)	42.6PSI (2.90 Bar)
5" (125mm)	11.0PSI (0.75 Bar)	22.0PSI (1.50 Bar)	36.8PSI (2.50 Bar)
6" (150mm)	9.3PSI (0.63 Bar)	18.4PSI (1.25 Bar)	29.4PSI (2.00 Bar)
7" (175mm)	8.0PSI (0.55 Bar)	16.2PSI (1.10 Bar)	26.5PSI (1.80 Bar)
8" (200mm)	7.4PSI (0.50 Bar)	14.7PSI (1.00 Bar)	23.5PSI (1.60 Bar)
10" (250mm)	5.9PSI (0.40 Bar)	11.8PSI (0.80 Bar)	19.1PSI (1.30 Bar)
12" (300mm)	5.1PSI (0.35 Bar)	10.3PSI (0.70 Bar)	16.2PSI (1.10 Bar)
14" (350mm)	4.4PSI (0.30 Bar)	8.8PSI (0.60 Bar)	13.2PSI (0.90 Bar)
16" (400mm)	3.6PSI (0.25 Bar)	7.4PSI (0.50 Bar)	11.8PSI (0.80 Bar)
18" (450mm)	2.9PSI (0.20 Bar)	5.9PSI (0.40 Bar)	9.6PSI (0.65 Bar)
20" (500mm)	2.7PSI (0.18 Bar)	5.1PSI (0.35 Bar)	8.0PSI (0.55 Bar)
24" (600mm)	2.2PSI (0.15 Bar)	4.4PSI (0.30 Bar)	6.6PSI (0.45 Bar)
28" (700mm)	2.1PSI (0.14 Bar)	4.1PSI (0.28 Bar)	5.9PSI (0.40 Bar)
32" (800mm)	1.9PSI (0.13 Bar)	3.8PSI (0.26 Bar)	5.1PSI (0.35 Bar)
36" (900mm)	1.8PSI (0.12 Bar)	3.5PSI (0.24 Bar)	4.7PSI (0.32 Bar)
40" (1000mm)	1.5PSI (0.10 Bar)	2.9PSI (0.20 Bar)	4.4PSI (0.30 Bar)

**These safe working pressures are the pressure inside the bag when inflated inside of the pipe with diameters shown.**

### IMPORTANT NOTICE:

This information is given in good faith and may be subject to variation. Please remember that the suitability of a particular material for a particular application depends upon a number of factors including all or some of the following: temperature, composition and concentrations chemicals, mixtures of chemical mixtures, duration of exposure and mechanical agitation. The above information assumes a temperature span of -10C to +40C, the maximum peak short term exposure temperature is 110C. Please note that Environmental Innovations Limited cannot accept any responsibility whatsoever for the use of this information consequential or otherwise. If in doubt a sample of the material should be tested before use.