

## OVERVIEW:

Tedlar Bags are high strength air sampling bags made from Tedlar or PVF films facilitating collecting gas or air samples directly in the bag without external pump or equipment. Advantages of Tedlar bags are several. Tedlar films have low gas permeability both, into and out of the bag; have high tensile strength to withstand perforation in the field. They are less expensive than FEP and PFA film. They're made of 2 mil thick films and are purged to remove background odor.

We manufacture high-quality sampling bags using clear and top quality Tedlar or PVF film for occupational & environmental health & safety professionals worldwide. They are available in metal, eyelets to ease holding & storage. Our integrated handle design facilitates filling as well as removing air or gas in the sample bag. They're cost effective and better alternative to canisters and solvent desorption tubes & are suitable for methods like EPA, NIOSH, etc.

Buyer requested to notify in advance regarding their particular choice of fitting from; Single combined PTFE valve and silicon septum for high-temperature sustainability and light weight; Dual stainless steel for sampling flexibility; and reliable, inert stainless steel fitting construction prevents leakage

## PRODUCT PROFILE & PERFORMANCE PROFILE

Tedlar bags are chemically inert, i.e. they're unaffected by the chemical component of gasses like Carbon mono oxide, Sulphur dioxide, Radon, Hydrogen Sulfide, methane, sulfur hexafluoride, etc. They are leak tested, non-contaminating, & reusable, and ready for use. You can start performing sampling immediately. SS and PTFE fittings are lightweight which ensure easy usage and minimize chances of damage when re-used. Recommended for samples processed with delay in the range of 6 to 12 hours and moderate to high VOC & H<sub>2</sub>S

**Product Name:** Tedlar ® Bags Product Code:

**Wall Specification & Thickness:** Tedlar® PVF (Polyvinyl Fluoride) film; 2.0 mil, oriented

**Valve Combinations:** Stainless Steel Dual Fittings, PTFE Screw Cap Combo & Locking Combo

**Septum:** Silicon

**Grommeted Eyelets:** Stainless Steel

**Temperature (Operating):** Not advisable to expose in temperature above 80 °C

**Storage:** Store in cool, dry place or temperature between 4 and 40-degree Centigrade

**Operating Pressure:** Filling from pressurized gas sources or external pump not recommended

**Background:** Moderately low VOC

**Stability:** Good for VOCs, withstands some of the sulfur compounds (including H<sub>2</sub>S), CO, CO<sub>2</sub>, methane, and sulfur hexafluoride (SF<sub>6</sub>)

**Analyses:** Multiple

**Chemical Inert:** Tedlar film won't react or alter the composition of a broad range of chemicals, assuring sample integrity

**Usage & Application:**

- Biogas & Landfill sampling
- Industrial Hygiene
- Indoor air, ambient air sampling
- Stationary source testing
- Calibrating gas standards
- Gas blending & Sampling
- Groundwater Testing
- Magnetic Imaging
- Grab Sampling
- Soil Gas Sampling
- Waste site sampling
- Vent Sampling

**Usage Guidelines**

**Before Use:**

- Fresh and virgin Tedlar bags should store in clean atmosphere & location. The outer container in which they stored should be sealed to avoid absorption of contaminants.
- Before using clean them thoroughly with Nitrogen with high purity.
- For validation purpose, the compounds should stabilize at > 80% for three days or 72 hours
- Ensuring leak rate is met beyond 0.1" Hg/min

### **During Use:**

- PTFE tubing should be clean & free of any contaminant whatsoever.
- To steer clear of impurity use of vacuum box sampler is recommended for directly filling the bag.
- 3 L/min is typical flow rate.
- Filling bags above 80% results in over pressurizing the bag which shortens its life.

### **Post Use:**

- Hold time 48 hours unless otherwise suggested.
- Protect from direct exposure to sunlight, store in above 0<sup>0</sup>C to avoid condensation.

### **Reusability Guidelines:**

- It is not, advised to use air sampling bags after one use as there are chances of residues remaining on the inner surface of the bag that can impact the subsequent test adversely. However by following certain guidelines, one can put these bags to use again.
- Flush and heat the bag thoroughly as soon as sampling done. Air should evacuate from the bag before storing it for re-use.
- It is safe to re-use cleaned bags to sample ethers.
- Properly cleaned Tedlar air sampling bags can also be used for higher MW alcohols without the risk of contaminating the samples.
- Sampling bags used for sampling styrene or ethylbenzene can't re-use because cleaning, heating, or flushing can't remove all the chemicals from bags.

### **Dos & Don'ts**

- Users are advised to go through, understand the manual; and comply with all labels, warnings, instructions, and accompanying manual before using this product. Learn about associated equipment methodically before using the product.
- Use the product as directed and specified by the manufacturer adhering to instructions.
- Do not store compounds for an extended period as there is a risk of chemicals getting absorbed in the bag surface.
- To avoid sample loss, septum which faced fluoropolymer tubing has to use.
- Examine the product and associated equipment to check damage or defects before using. If you find it damaged, defective, or not performing its function properly, please do not proceed with using it.
- For sampling light sensitive elements, go for charcoal Tedlar bags.



- Overstressing the bag is not advised. If due to ignorance or oversight it is pulled too hard on its handles, the bag may develop a crease or crack the handles, that'll shorten its life.
- Users may please note that this product is not to use for the volumetric measurement. The gas or air samples are used for sample collection purposes only; the size of the actual group may exceed an amount determined.
- This bag should not use near to open flame; do not fill the bag from external pumps or pressurized gas sources. Applying pressure at the time of filling gas that exceeds atmospheric pressure is not recommended.
- Wear respiratory protection when directly exposed to fumes or gasses as per Occupational Safety & Health Administration directives.
- Distributing these bags without instructions manual is risky & in worst cases, fatal. It may lead to its misuse, property damage, injury, or death.
- Users and buyers are requested to keep this data sheet readily available for reference.
- These bags should not use for storing reactive compounds or those that are unstable.

If buyer or user is confused about the proper use at any stage call on our technical team's telephone numbers: +91-9765849656 before using or attempting to use these Tedlar bags.

The information includes in manual may change without prior notice. Content in this data sheet is Techinstro company assets, and consequently, no one is allowed to use, copied or transferred in any form, i.e. electronic, mechanical, etc. without our express wrote permission

#### **Standard Size:**

- Available in sizes starting from 0.5 liters to 1000 liters in package quantity 1, 10, 25, 50 pieces in single polyline fitting & dual stainless steel fitting
- Shipped in sturdy, opaque container to avoid puncture
- Option of 'Shipped by air in pressurized cabins' available
- Custom sizes, stainless steel valve, Polypropylene combo valves, Barbed, TCLP, etc. fittings available
- Choice of accessories to sync with bag size and type of application in full range of material
- Bags available for EPA method

Web : [www.techinstro.com](http://www.techinstro.com)

Email: [info@techinstro.com](mailto:info@techinstro.com)

Phone: +91-9765-849656

Tel : +91-712-2646456