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Totally Impermeable Film (TIF)

7-layer TIF barrier fumigation film with EVOH layer for superior gas retention—improves fumigation efficiency and enables lower dosage. Available via STIPL Agritech.

Barrier fumigation film with EVOH layer for superior gas retention

7-layer TIF barrier film that retains fumigants in soil, enabling lower dosage and cleaner operations.

Totally Impermeable Film (TIF) is a 7-layer barrier fumigation cover engineered with an *EVOH* barrier layer to sharply reduce gas permeation and keep fumigants in the soil. This improves fumigation efficiency, cuts emissions, and supports lower application rates.

- **Construction:** 7-layer co-extruded film with EVOH barrier, UV-stabilized
- **Purpose:** Soil disinfection & fumigation; superior retention vs. standard PE sheets
- **Compatible fumigants:** Methyl bromide, 1,3-D (dichloropropene), chloropicrin, metham sodium, dazomet, etc.
- **Benefits:** Higher under-tarp concentration, reduced emissions, potential dose reduction, cleaner surrounding areas

Key advantages

- Barrier layer blocks diffusion to retain fumigants in soil for longer exposure.
- Helps reduce total fumigant dosage (project-dependent) while maintaining efficacy.
- Supports better weed, nematode and pathogen control through improved distribution.
- UV-stabilized, high tear & puncture strength for field handling.

Applications

- Pre-plant soil disinfection for vegetables, fruits, floriculture & nurseries.
- Orchard/vineyard replant scenarios and beds/raised beds under plasticulture.

Usage notes

- Install on well-prepared, moist soil; seal edges for best retention.
- Follow label rates and local regulations; aerate per safety protocol after treatment.

Fumigant Efficiency
EVOH layer reduces dosage for effective pest control.

Clean Soil Prep
Ensures weed- and pathogen-free fields for planting.

Emission Reduction
TIF minimizes fumigant leaks for safer operations.

SHELTERTECH INDIA PRIVATE LIMITED
Plot #9, Office #7, DHL Square, IT Park, Sector 22, Panchkula, Haryana - 134109 , INDIA

+91 1724029871 contact@sheltertechindia.com