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Solarisation Film

Transparent 7-layer UV-stabilized film for solar soil sterilization. Kills soil-borne pests, weeds, and fungi using natural heat—eco-friendly and chemical-free solution by STIPL Agritech (GreenPro).

Transparent UV-stabilized film for soil sterilization using solar energy

Special 7-layer clear film that harnesses solar radiation to eliminate soil-borne pests, fungi, and weeds before cultivation.

Solarisation Film is a transparent, UV-stabilized 7-layer film that captures and retains solar heat within the soil, raising temperatures to levels that destroy harmful pathogens, weeds, nematodes, and fungi—offering an eco-friendly alternative to chemical fumigation.

- **Construction:** 7-layer co-extruded, high-clarity polyethylene film
- **Thickness:** 25–50 µm (custom sizes available)
- **Color:** Transparent, high light transmission
- **UV Life:** 700 Kly (approx. 1–2 years field life)
- **Technology:** Engineered to provide uniform soil heating and moisture retention

How it works

Solar energy is trapped beneath the film, creating a greenhouse effect that increases soil temperature to 50–60°C. This sustained heat kills soil-borne pests and pathogens, leaving the soil clean and ready for planting.

Applications

- Pre-plant soil disinfection in vegetable and flower nurseries
- Organic and protected cultivation systems
- Replacement for chemical soil sterilants

Advantages

- Eliminates weeds, nematodes, fungi, and pathogens naturally
- No chemical residue—safe for organic cultivation
- Improves soil structure and microbial balance
- Simple and economical field application

Installation Tip: Lay film tightly on moist, well-prepared soil and seal the edges. Keep in place for 4–6 weeks of sun exposure for best results.

Chemical-Free Control
Solar heat kills pests and weeds for organic farming.

Soil Sterilization
Heats soil to 60°C for healthier crop establishment.

Reusable Design
UV-stabilized film for multiple solarisation cycles.

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