

TECHNICAL PRODUCT INFORMATION

Product: Stabilized film for solarization
Catalog Number: E1323
Product description: Clear Stabilized film for solarization. The plastic sheets allow the sun's radiant energy to be trapped in the soil and heating the soil. Solarization during the hot summer months can increase soil temperature to levels that kill many diseases and weed seed. Soil solarization also improves soil structure and increases the availability of nitrogen (N) and other essential plant nutrients. Solarization is a simple, safe, and effective method that has been used with field, vegetable, and flower crops. It can be combined with organic soil amendments or reduced rates of pesticide application for greater effectiveness. The plastic sheets should be left in place for 4 to 8 weeks to allow the soil to heat to the greatest depth possible.

Soil Preparation

Solarization is most effective when the plastic film is laid as close as possible to a smooth soil surface. Preparation of the soil begins by disking or roto-tilling to break up clods and then smoothing the soil surface. Remove any objects or debris that will raise or puncture the plastic.

Irrigation

The Soil must be irrigated in order to conduct heat to depth layers (wet soil conducts heat better than dry soil). The soil need to be irrigated again during solarization, if the soil is very light and sandy, or if the soil moisture is less than 50 percent of field capacity.

Thickness: 20-50 μ

Product properties

Property	Test Method	Units	Value
Tensile Strength at break[MD]	ASTM D-882	MPa.	20
Tensile Strength at break[TD]	ASTM D-882	MPa.	18
Elongation at break [MD]	ASTM D-882	%	300
Elongation at break [TD]	ASTM D-882	%	500
Falling Dart Impact	ASTM D-1709	gr.	100
Total light transmission	EN 13206	%	90
Thickness average tolerance	EN 13206	%	± 5 on nominal

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