INTERNATIONAL PLANT PROPAGATORS' SOCIETY SHARING PLANT PRODUCTION KNOWLEDGE

19th ANNUAL CONFERENCE

IPPS Southern Africa Region

Greenhouses maintenance and installation

Thursday 3 March 2016, Lambert's Bay, West Coast

Yoram Sztyglic- chief agronomist, Ginegar Plastic Products LTD Israel



Topics of this presentation

- Introduction
- 5 layers technology
- Greenhouse films properties
- Greenhouse maintenance and installation
- Summary



Plastic is not just an umbrella as it was before it is much more



LAYER FILM





Introduction



- •Company profile.
- •Activity on over 65 countries all over the world.
- •Ginegar cooperates with universities and leading farmers.
- •R&D department and laboratory services in Israel and abroad.







LAYER





Covering the world with care

GINEGAR

Plastic Products Ltd

6

LAYER

FILM

5 layers technology





LAYER

FILM



GINEGAR Plastic Products Ltd. Covering the world with care

6n)

LAYER FILM



GINEGAR Plastic Products Ltd. Covering the world with care

6л



Greenhouse films properties

Anti drip Anti mist Anti dust Blocking UV radiation **Resistance to breakdown**

Resistance to tear

Film life expectancy-stabilizers package

Light transparency, direct/diff

Thermicity (IR blocking)







Direct/ diffused light















Thermicity (IR blocking)













Antidrip film



Film with anti mist additive GINEGAR Plastic Products Ltd.
Covering the world with care Ôл

LAYER FILM

Film without anti mist additive

Blocking UV radiation- The Insect Field Of Vision



Insects cannot see red but they are able to see U V light and need it for their spatial orientation

Blocking UV radiation- AV film



Film without UV blocking





Without UV blocking

UV blocking

Discoloration (blackening) of petals of red roses is a result of the exposure to U V radiation and low temperatures



Grown under a film that does not block UV radiation



UV radiation and flowers pigmentation



S. S. AV blocks UV radiation

S. S. nectarine- does not block UV radiation

Greenhouse maintenance and installation issues


























Use adhesive type suitable for polyethylene film





















During transition between seasons, re-stretch the film if necessary



In order to improve the light transmission, periodical rinsing of the film is recommended. Use a sponge or a cloth





According to our experience film degradation start on contact between the frame and the film- the solution is to paint



Acording to our experience film degradation start on contact between frame and the film- the solution is to paint



According to our experience film degradation start on contact between the frame and the film- the solution is to paint the frame and the film



Acording to our experience film degradation start on contact between frame and the film- the solution is to paint

























UV radiation premature degradation, picture taken on June, 8, 2012


UV radiation premature degradation, picture taken on July, 6, 2012

ABILIZED WGH

AT.Films NOT UV STABILIZED 8 SEP 12 WGH







Film degradation- direct contact polyethylene and PVC



Film degradation- sulphur evaporation







The printed logo on the film should be logically readable while standing inside the greenhouse

for the second ***** ceosora un ato atoa 26.05.2009

A film installed ups and down





SCREEN SECTION OF A PARTY APPROVED STREET

A film installed ups and down



A film installed ups and down



Picture taken on November 10th 2012 Johannesburg- South Africa



Picture taken on 2012, November 10th Johannesburg- South Africa

Summary

Choose the right film properties

In order to prevent early premature film degradation choose the right stabilization package

Good structure preparation and good installation will contribute for longer life span of the film







 Covering the world with care

yoram@ginegar.co.il