



# SUSMEDHOUSE

Sustainability and Competitiveness of Mediterranean Greenhouse and Intensive Horticulture.

## Coating

### Development and Testing Coating.



Two types of coating on PET have now been manufactured and delivered to ARTECS: one exhibiting 70 % PAR transmittance and a second exhibiting 45 % PAR transmittance. Both coatings have a low emittance in the IR. Three tunnel greenhouses are then due to be constructed to test the influence and also the durability of the coatings.



Exhibiting 70 % PAR transmittance

Exhibiting 45 % PAR transmittance

### Two types of coating



### Test and delivered coating.

The coated PET has also been tested at the Fraunhofer ISE in the climate chamber for 10 days at 85 % relative humidity and 85 °C. The coatings exhibited no degradation and the emissivity improved (i.e decreased) marginally as the film undergo a low "anneal" under these conditions. These samples will be tested further for a total of 30 days.



Producing coating



Applying coating in greenhouse



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### SUSMEDHOUSE

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