

SUSMEDHOUSE PARTNERS



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SUSMEDHOUSE

Sustainability and Competitiveness of Mediterranean Greenhouse and Intensive Horticulture

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Fraunhofer

ISE

Germany

Solar Coating and Low-E Coating



Development of Solar Coating and Low-E Coating on greenhouse roof materials

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.

Coating 70 % PAR transmittance 

Coating 45% PAR transmittance 

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.

