

Benefits of using  and   
Greenhouse Cover Film

# Greenhouse Cover Film



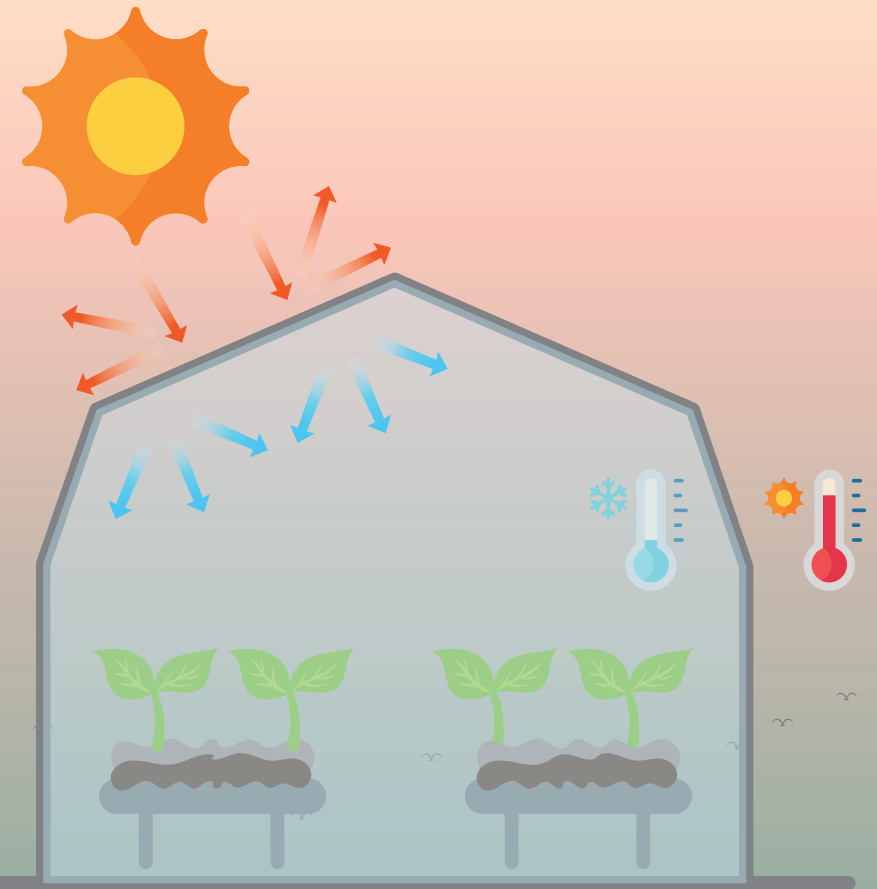
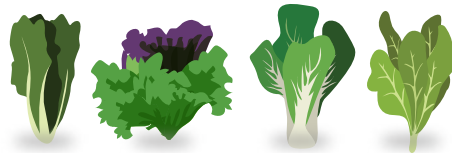
## Tomato and Melon

- ✓ **Better growing**  
High number of leaves and strong stalk
- ✓ **High crop yield**  
High number of fruit clusters  
High average fruit weight
- ✓ **High quality**  
Sweet and high vitamin C



## Salad

- ✓ **Better growing**  
Wide bush and high number of leaves
- ✓ **High productivity**  
High average vegetable weight



Advanced Polymer Technology Research Group  
National Metal and Materials Technology Center (MTEC)  
National Science and Technology Development Agency (NSTDA)



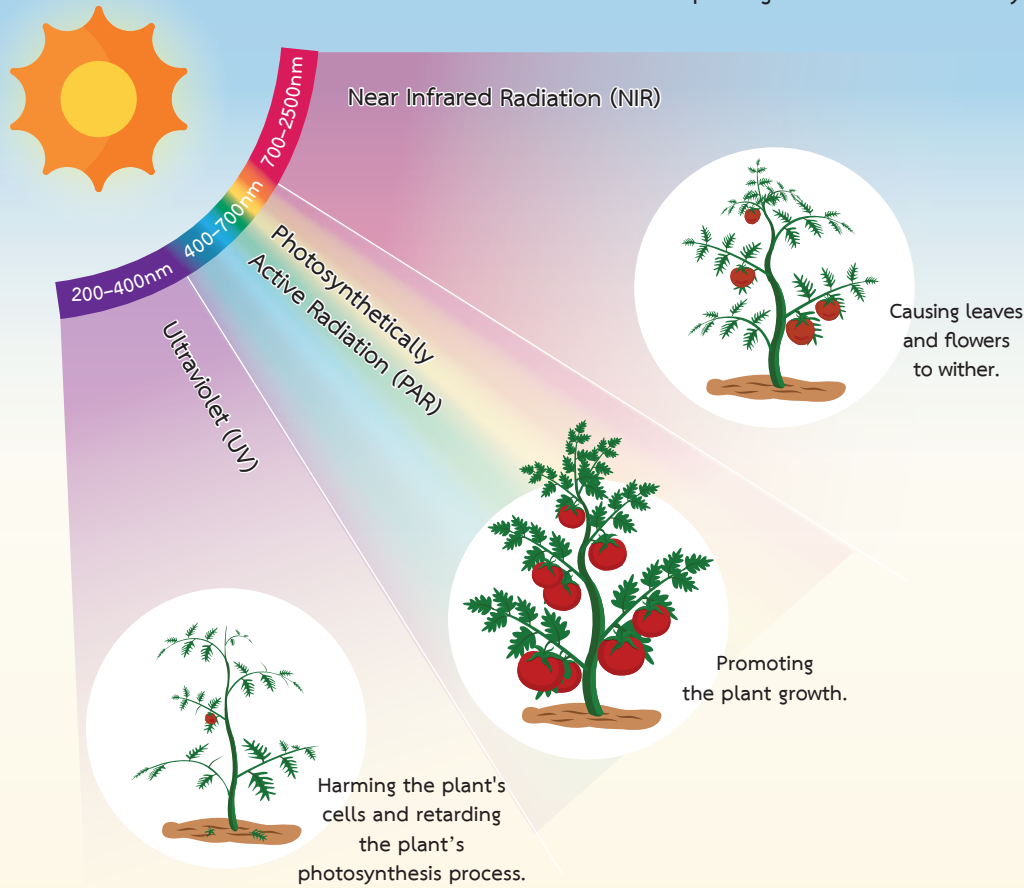
[www.mtec.or.th](http://www.mtec.or.th)

**Contact** Rapeepan Rahong  
Business Development Division  
Industrial and Business Liaison Section  
Tel: 02 564 6500 ext. 4789  
Email: [rapeepr@mtec.or.th](mailto:rapeepr@mtec.or.th)



# Factors Affecting Plant Growth in Greenhouse Cultivation

**Solar Radiation** affects plant growth in different ways



# Innovation on Greenhouse Cover Film of MTEC

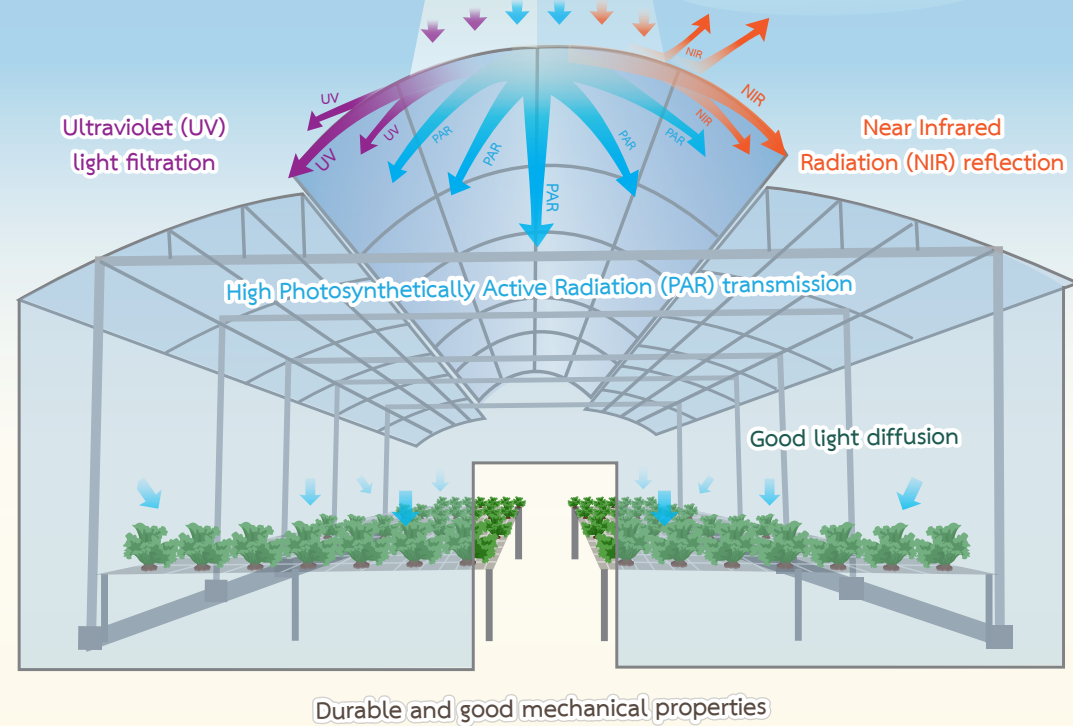


Table: Comparison of the greenhouse cover film properties

Type of greenhouse cover film	UV Filter	Light Diffusion	NIR Reflection
Commercial UV filter film	✓	✗	✗
MultiTech	✓	✓	✗
MultiTech-Ultra	✓	✓	✓

Do you know? "UV film" and "UV filter film" are not the same.

In greenhouse application, "UV film" is the film containing UV stabilizer which can delay the degradation process of plastic film when exposed to sunlight for long period of time. "UV filter film", however, is the film containing the UV absorber that filter UV radiation which is harmful to the plant growth, from being transmitted through the film.

