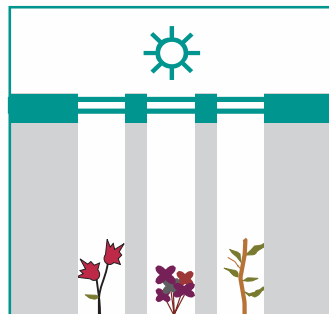




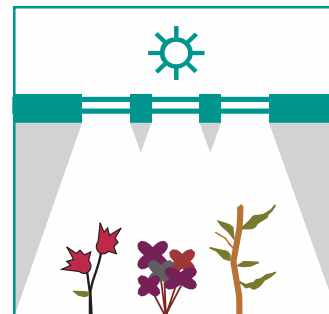
## Even light distribution for delicate plants

### Product

Acrylit is made from fibreglass-reinforced acrylic resin, coated on both sides with long-lasting gelcoat (does not yellow over time and diffuses 95% of transmitted light.) Of all of the materials available for covering greenhouses, Acrylit is the best for excellent crop growth, as it allows light to enter in the wavelength ranges at which photosynthesis, phototropism and germination occur (between 360 and 725 nm). It is also the only covering that evenly diffuses the radiation received, preventing any possible local temperature excesses on plants. These characteristics make Acrylit particularly well suited for greenhouses growing delicate plants (such as flowers, seeds, tomatoes, etc.)



**Direct light**



**Light diffused with Acrylit**

### Advantages

- ✓ Optimises the photosynthesis process and boosts growth, as the plant receives light from all angles.
- ✓ Limits transpiration from the leaves of the plant, keeping it healthier and stress-free.
- ✓ Stops leaves from drying out.
- ✓ Limits the temperature inside the greenhouse, so it does not need to be painted.
- ✓ Cold bending.
- ✓ High impact strength and resistance to the most commonly-used chemicals.
- ✓ A long-lasting solution, for many years to come.

## Specifications

Just like humans, plants are more receptive to some wavelengths than others.

These graphs show the respective light transmission ranges of frosted ACRYLIT and plant receptiveness.

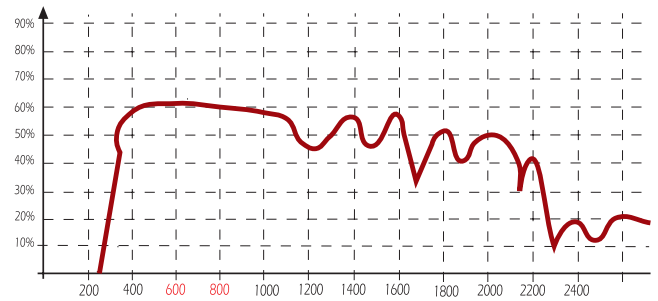
The fact that the maximum values of both graphs coincide shows that frosted ACRYLIT has a positive effect on plant growth.

Furthermore, the fact that ACRYLIT diffuses 95% of transmitted light helps the plant to grow quickly, healthily and with no potentially harmful disorders.

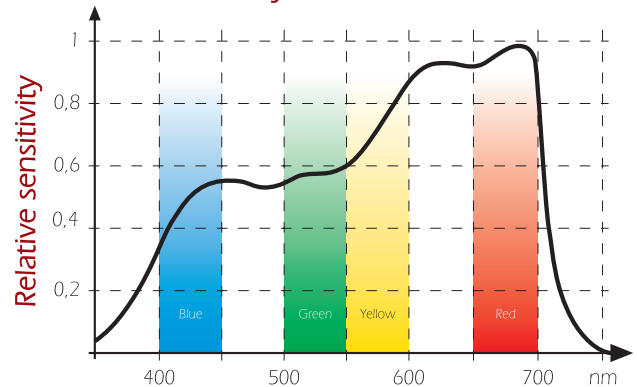
The more delicate the plant that needs to be protected, the more evident this beneficial effect of the properties of ACRYLIT becomes.

Frosted ACRYLIT is non-yellowing and does not lose its properties over time, meaning that greenhouses built using ACRYLIT are very long-lasting.

Acrylit light transmission spectrum



Plant sensitivity



## Properties

### Acrylit®

- Maximum light entry loss over 10 years: 7%
- Light diffusion: 95%
- Coefficient of expansion: 0,026 mm/m°C (ASTM D-626)
- Softening temperature (Vicat): +130°C
- Thermal conductivity: 0,23 W/m°k (ASTM D-52612)
- Normal thickness of Acrylit for greenhouses: 1,0 mm

