



ipasol ultraselect 62/29

**High-tech solar control glass -
more than just a pretty façade**





Intelligente architecture

The challenges facing modern architecture are many and varied. The need for solutions which make life easy both for residents and for users calls for creativity and innovation. This covers a wide variety of fields - from energy efficiency to pure aesthetics.

A decisive part is played here by the façade itself. Being the building's external shell the façade is at once the first impression it creates and its protective coat. The façade envelops a structure in much the same way as the skin does an organism - except that the skin of this building is intended to be as transparent as possible.

Leading-edge futuristic glazing

Interpane is an innovative specialist in this field; it has, with its ipasol ultraselect 62/29, developed a high-tech low-emissivity solar control glazing that satisfies - with ease - all the demands made of modern façade concepts.

And more besides... With this product and its outstanding selectivity properties Interpane is setting new standards in terms of functionality.

More light, less overheating

A triple silver coating is applied to the inside surface of the external glass sheet; this produces a high light transmittance (τ_v) of 62 percent and at the same time a low total solar energy transmittance (solar factor) of only 29 percent. Rooms can be bright and flooded with sunlight and even directly exposed to the sun's irradiation - but inside one keeps a cool head

Only ten percent of incidental light is reflected outwards. This reduces the often unpleasant glare effect.

ipasol ultraselect 62/29 is a real pioneer in terms of energy efficiency too. With its low solar factor of only 29 percent it significantly reduces the cooling load of a building in summer. This relieves pressure on air-conditioning plant; indeed it may even help dispense with air-conditioning altogether. This saves energy and helps our environment. It may even make various shading systems superfluous.

A color-neutral view

Protection from the sun's radiation by lowering the solar factor was in the past nearly always at the expense of a low τ_v value. As a result the view of and through the glass was cloudy and partly discolored. ipasol ultraselect 62/29 - thanks to its sophisticated coating technology - makes the view of and through the glass completely color-neutral.



ipasol ultraselect 62/29: setting the style in intelligent façade concepts

Architects love the freedom of structural design it offers

To plan and construct a building is a demanding task. It is a great advantage therefore to be able to resort to products that offer a high level of flexibility.

Irrespective of whether as a sloping roof construction or a vertical glass façade, ipasol ultraselect 62/29 gives architects the freedom of structural design that they need when planning creative and energy-efficient buildings.



Façade structures of the future

The demands made of façade structures have become more and more exacting in recent years. Thermal insulation and energy-efficiency are now standard.

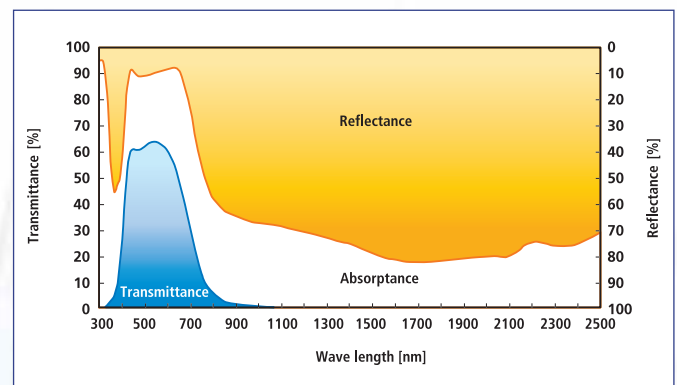
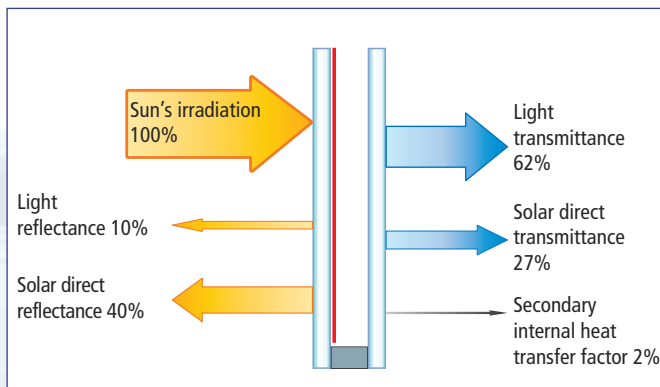
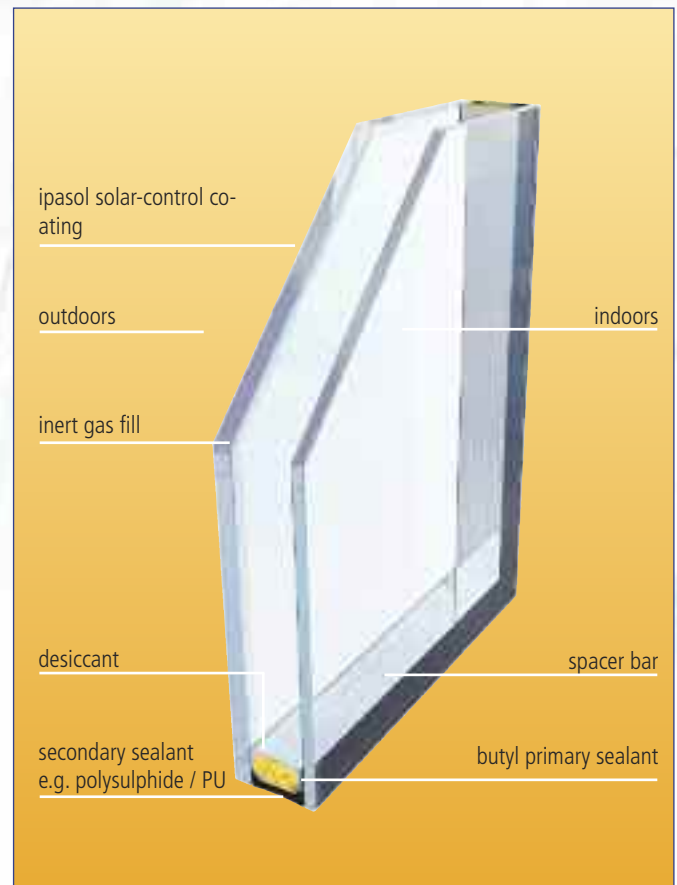
The Energieeinsparverordnung (EnEV) (German energy-saving ordinance) imposes a number of strict regulations regarding the energy consumption properties of new buildings. Interpane, with its ipasol ultraselect 62/29 solar control glass, has developed a product that not only satisfies these stringent demands with ease but even goes a considerable step further. The future of glass façade construction has now really begun.



ipasol ultraselect 62/29: innovative glass façades with top technical values

Technical data and special features* :

- Triple silver coating with outstanding selectivity properties
- Very high light transmittance and low solar factor
- Light transmittance (τ_V -value) 62%
- Energy transmittance (solar factor) 29%
- U_g value 1,0 W/(m²K)
- Light reflectance outdoors 10%
- Color-neutral view of and through the glass
- Reduces summer-time cooling load



The reflectance percentage within the wave length range of visible light (380 to 780 nm) represents the colored outside view of the glass and the intensity of its outward glare.

* The specified rated values refer to the testing conditions and the application scope of the referenced standard.



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