

arcePlus®

arceWall®



dott.gallina

POLYCARBONATE SYSTEMS & SHEETS

**Special Surface
Treatments**

*Custom finishing
Infinite colors*

PoliComp®

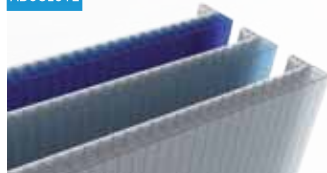
PoliCarb®

SPECIAL TREATMENTS

In order to meet the new architectural application requirements, it has been conceived a range of surface treatments that could improve the performance of polycarbonate panels according to the specific use. By analyzing the critical issues, we can offer a product that anticipates the user's needs, providing solutions to ensure the climatic comfort, the visual comfort and the energy savings.

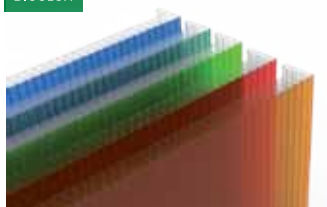


AB ABSOLUTE AB-ABSOLUTE



Opaque co-extrusion, white or colored, on the external side of arcoPlus® panel closer to building walls, in fact this opaque surface blocks the view of any substructures or insulating materials when you want to realize curtain walls or building envelope

BC BICOLOR THE DOUBLE-COLOR TECHNOLOGY



The arcoPlus® panels can be produced also with two different colors included into the mass of two distinct layers, the inner and outside one. This particular production technology thus enables to manage with greater efficiency the light transmission simultaneously with the color rendering.



AR ANTIGLARE AR ANTIGLARE

The arcoPlus® panels with AR anti-glare treatment are characterized by a light diffusing coextrusion on the inner wall. This innovative finish surface, as well as spreading the sunlight, prevents glare or reflections making, which greatly improve the visual comfort in the facilities where the panels are installed.



AG ANTIGRAFFITI AG | ANTISCRATCH & ANTIGRAFFITI

Polycarbonate sheets/panels are characterized by an high mechanical strength. This feature, joined with the high thermal insulation performance, makes these products particularly suitable to achieve continuous façades, curtain walls and windows. If the position where these systems are installed provides the risk of vandalism damage, such as scratches or graffiti, it is possible to benefit of the innovative AG ANTIGRAFFITI treatment. This finish increases the surface hardness for preventing the engravings' penetration and improving the scratch resistance. Moreover this treatment contains a substance repellent to oils, alcohols and water, which hinders to such agents to penetrate deep into the material, making easier the cleaning.



UV MATT UV-MATT

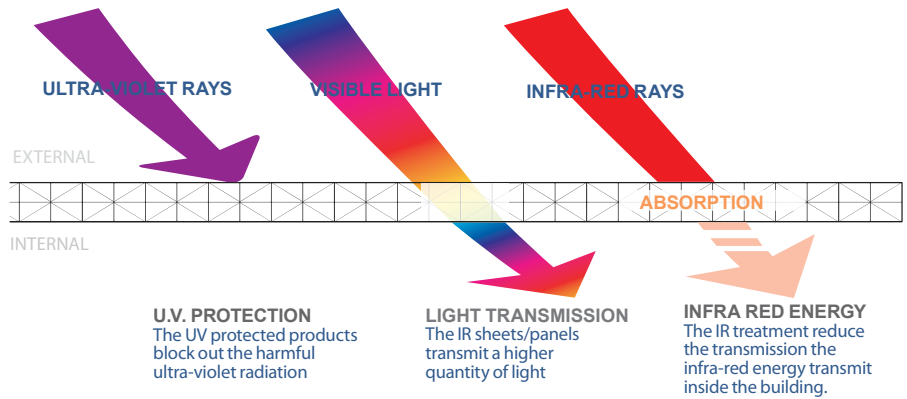
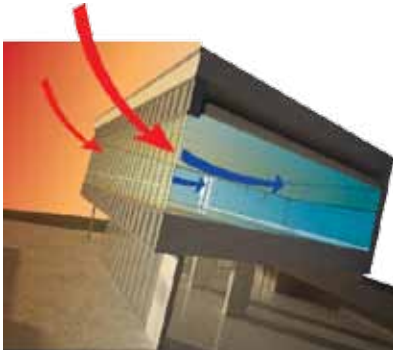
With the aim of giving a material effect to building envelopes made of polycarbonate and in order to avoid surface reflections due to the PC characteristic gloss, now it's possible to co-extrude the outer wall of arcoPlus® or Policarb® with a special matting surface finish UV protected, called UV-MATT. This treatment allows a better distribution of natural light in the inner spaces, providing also a pleasant silky effect to the touch

IR



IR | INFRARED-RAYS CONTROL

The temperature control and the heat management are essential to maintain the desired level of comfort in every kind of buildings. The panels with IR treatment absorb selectively only the infrared portion of solar radiation by limiting the amount of transmitted energy. Basically, the IR treated products absorb the rays nearby the infrared spectral region (780 to 1400nm), filtering part of the energy coming from the sun, but letting in the visible light. Thanks to the use of these products you can preserve the climatic wellness and reduce up to 25% the internal temperature increasing caused by the greenhouse effect, that generally is determined by transparent materials. These elements are also fundamental to minimize the energy costs about cooling/heating and to maximize the natural resources, such as radiation and lighting.

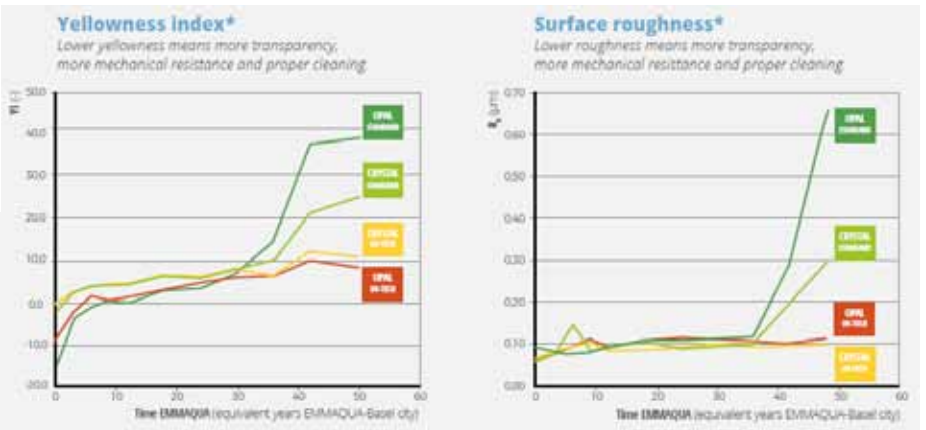
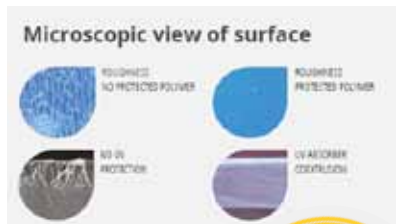


UV TECH



UV-TECH | SOLAR EXPOSURE WARRANTY

In order to ensure long-lasting projects, every kind of polymer has to be protected against the natural solar degradation process. PoliCarb®, PoliComp® and arcoPlus® panels with UV-TECH treatment are characterized by an extended warranty up to 15 years due to a protective coextrusion put into the external surface, composed of special UV-absorbers which grow more chemically stable and effective over time.

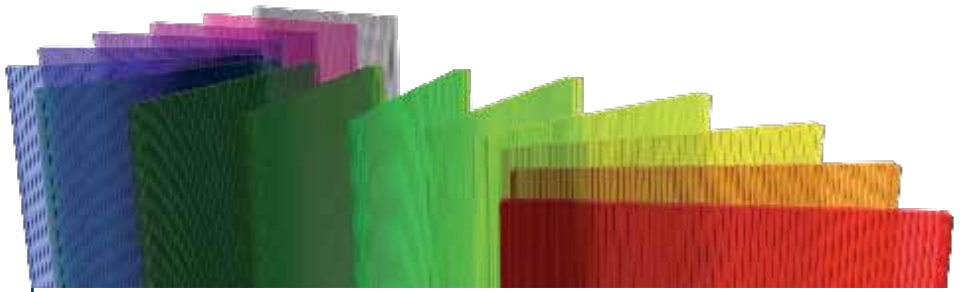


Analysis derived from EMMAQUA test- With the aim of ensuring maximum treatment efficiency, several arcoPlus® samples have been analyzed through the renowned EMMAQUA accelerated aging test, which exposes the materials to natural solar radiation in the Arizona desert, considering the real degradation. The test procedure is carried out by monthly analysis, but the hard weather situation allows comparison of these samples' performances at a real building installation located in urbanised areas following a proportionate yearly valuation (e.g. Basel city).

Features and Benefits - Performance guaranteed over time

Greater surface protection to ensure incredible weathering resistance performance and to create applications with a longer lifetime. Thus it's possible to observe and effectively measure advantages in terms of:

- Product stability over time
- Color unchanged despite outdoor exposure
- Minimum increase in surface roughness
- Considerable reduction in the yellowing phenomenon even after a prolonged sun exposure



COLORS & TRANSPARENCY



The polycarbonate world has been renovated: it takes to remove the common understanding of a aesthetically cheap material available only in few standard colors. Thanks to the technological evolution of the production plants and R&D activity on color pigments, it's possible decline the classic transparent plastic in an infinite range of colors with unexpected light effects an intended to new applications... giving new life to polycarbonate.

THE CALEIDO PROJECT

The Caleido Project focuses on to the color customization to allow the realization of design architectures using a lightweight and versatile material that recreates any imagined color without limiting creativity. The PC panels can be produced in an infinite range of customized nuances: by sampling the color required by the customer we can to re-create it into the mass of PC sheet. In order to provide a more timely service it has been created the "READY TO GO" range, consisting of over 50 coded colors producible in a short time or just available in stock.

INFINITE NUMBER OF TRANSPARENCY DEGREES

The contemporary architecture works aim at overturning the usual perceptions of space and of lighting effects; these key concepts have inspired the desire to offer structural components used as well as design elements. The ability to choose the desired degree of transparency allows to hide-create-suggest-modify spaces and social context.



WE CREATE YOUR CUSTOMISED COLORS

