

It's all about performance.

» SOLAR AUTOMOTIVE WINDOW FILMS: TECH BULLETIN

What is Ultra Performance?

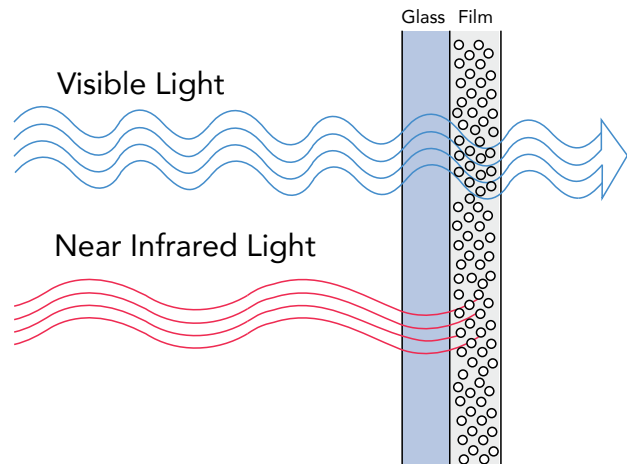
The Solar Gard Ultra Performance automotive window film line is the new industry benchmark in high-tech coating technology. The Ultra Performance (UP) line of products utilizes new breakthroughs in nanoparticle engineering to create infrared absorbing, heat blocking films without using metals or dyes. This means you keep the clear views you deserve, with the exact tint you want, and still block a significant amount of solar radiation.



Nanotechnology is an emerging field of engineering that relies on using millions of microscopic particles to achieve a desired effect. In the case of solar control window film, the manufacture of these particles is carefully controlled so that they are all of a size that readily intercepts infrared radiation (heat) emitted from the sun. By using exacting processes and careful controls to create the nanoparticles at the appropriate size, and applying them with state of the art coating processes, the film is engineered to block infrared radiation while simultaneously allowing visible light to pass through.

The Nanotech Advantage

Nanoparticle coatings have several key benefits over traditional dyed and metallized solar control films. A major benefit of "nano" films is that they are capable of blocking a significant amount of solar heat in the infrared region for a given light transmission value. This is ideal for automobile owners who wish to block solar heat with a non-reflective film, but desire a specific light transmission level or tint shade. Ultra Performance is also well suited for jurisdictions that legally require a minimum visible light transmission value through automobile windows. Now the benefits of nano coated films are available in the full line of transmission values to better service a wide range of consumer requirements.



The nanoparticles absorb the infrared heat from the sun, while allowing visible light to pass through.

Another advantage of nanoparticle coatings over previous generations of window films is that they are metal free, meaning there is no risk of electromagnetic interference (EMI). EMI is the phenomenon of metal surfaces impeding signals from communications equipment. Automobiles are increasingly being fitted with equipment that uses wireless communications signals, such as Bluetooth systems, satellite radio (such as Sirius XM), AM & FM radio signals, and wireless tire pressure monitoring systems. A small number of automobiles have had problems with such communication equipment after the installation of metallized window film. Ultra Performance is the ideal film for customers with auto equipment that utilizes wireless communications, and who are concerned about the effect placing metallized films on their windows will have on these electronics.

In addition to these benefits, Ultra Performance nano technology film is color stable and will maintain its appearance for the life of the product. Additionally, because there are no metals in the coating, there is no risk of corrosion or oxidation of the film. Ultra Performance still maintains all of the additional benefits consumers have come to expect from Solar Gard, including protection from ultraviolet light, a durable scratch resistant hardcoat, and a warranty that matches the quality of the product.

www.solargard.com

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