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Leading technology, leading the way

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>SEE WHAT 3-LAYER  
PVB TECHNOLOGY  
CAN DO FOR GLASS.

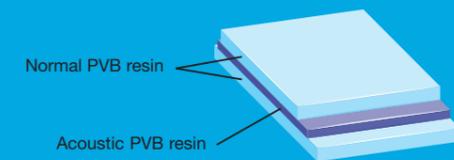
**s-lec**<sup>®</sup>

Leading technology, leading the way

**SEKISUI**

Leading technology, leading the way. S-LEC® 3-layer film technology raises the standards of laminated glass by increasing its properties and performance. Alongside better safety and security, S-LEC offers higher IR protection, as well as substantially greater acoustic protection. Giving architects superior products to work with that improve the environments we live and work in, save energy and extend the possibilities of design.

Understanding S-LEC® technology. Unlike standard PVB interlayer film, S-LEC Security Film and Acoustic Film are based on a patented 3-layer technology, composed of 2 outside layers of normal PVB which provide the mechanical strength, plus a special inside layer that delivers the improved performance. Whereas, S-LEC Solar Control Film is based on a virtual 3-layer technology which distributes a layer of solar resistant particles in the PVB interlayer using a patented fine particle distribution system.



*The example shows the structure of S-LEC® Acoustic Film with 2 outside layers of PVB and an inside layer with significantly enhanced acoustic sound attenuation performance.*

s-lec®

Leading technology, leading the way

>25% MORE SECURITY  
THAN STANDARD PVB.



The development of S-LEC Film is based on 30 years of applied technology. This product is now being used in architectural applications worldwide to improve safety and security.

Why use S-LEC Security Film? The need for better security has never been more important than it is today. Crime figures continue to rise and businesses are looking at a variety of solutions to reduce this problem and reduce their insurance premiums. S-LEC Security Film is perfect for shops, post offices, embassies and other buildings that demand high levels of security. In countries that are looking at using laminated glass more widely to protect against crime, S-LEC can significantly improve office and home security too.

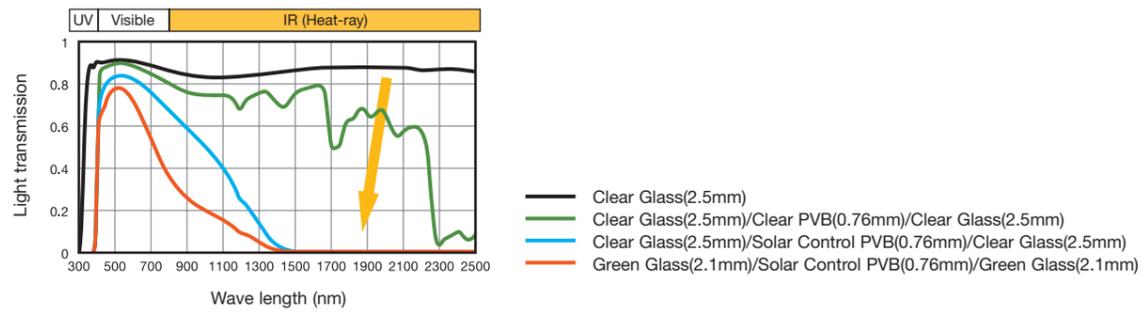
>SECURITY.

S-LEC Solar Control Film has solar performance properties that are competitive with conventional metal coated-glass products or polyester film. Not only does S-LEC filter out around 99% of UV rays but it is also 40% better at screening out solar heat (IR) energy, while at the same time enabling enough visible light to be transmitted through the film.

Where is S-LEC Solar Film needed most? S-LEC Solar Film lowers the amount of IR passing through office, shop, hotel and home windows dramatically - minimising the skin irritation caused by strong sunlight, helping to control room temperatures and reducing the burden placed on air conditioning systems – improving our lives and saving energy. In addition, S-LEC Solar Film screens out nearly all the harmful UV rays – protecting the goods displayed in the windows of clothes shops, museums and antique dealers from the discoloration and fading associated with sun damage.

What's more, unlike conventional heat reflecting glass products, this interlayer film does not block the radio waves emitted from radios and mobile phones.

## >IR PROTECTION.



Graph shows spectral Transmission of glass containing S-LEC® Solar Control Film compared with other glass products.

>40% MORE IR PROTECTION THAN STANDARD PVB.

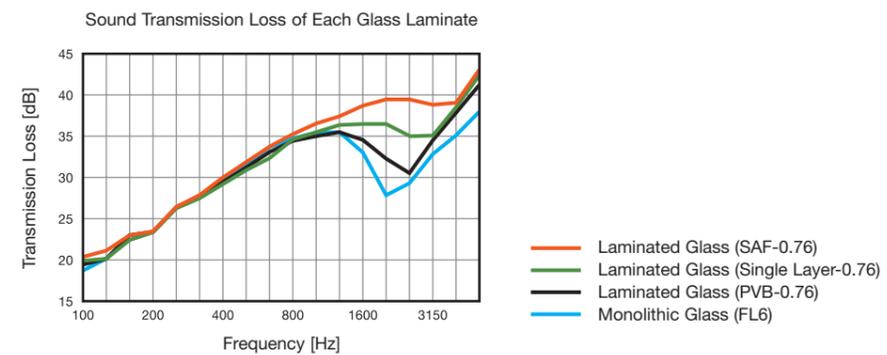


>40% MORE ACOUSTIC PROTECTION THAN STANDARD PVB.

Laminated glass already has some noise reducing properties. S-LEC 3-layer Acoustic Film, with a special low elastic resin inner layer core, delivers significantly better sound attenuation.

What are the applications for S-LEC Acoustic Film? S-LEC Acoustic Film is a vital inclusion in standard applications that demand a high level of noise prevention including office blocks in noisy areas and airports. It is also being considered for the housing that surrounds airports. Alongside this, S-LEC has already been used in a range of creative applications: In the glass roof of a French football stadium to limit the noise from raindrops, as well as in a glass wall by the motorway, instead of a traditional concrete wall that's used to block out noise. You'll also find S-LEC Acoustic Film in a range of contemporary buildings across Europe – creating quieter environments that add to the ambience of these modern constructions.

## >ACOUSTIC PROTECTION.



Graph shows performance of glass containing S-LEC Acoustic Film (SAF) compared to other glass products.

See what Sekisui can do for you. Sekisui is a leading worldwide company with over 40 years of experience in glass interlayer technology. Our success is based on delivering the 3 Ss - Service, Speed and product Superiority. This is made possible by our excellent production facilities, technical support teams and a network that enables us to meet all our customers' needs.

Technical services. We work closely with leading glass manufacturers. Where possible, our technical engineers assist customers by finding solutions to increase production line efficiency.

Standard PVB products. S-LEC also manufactures two standard interlayer products – S-LEC Clear Film and S-LEC Color Film. Offering substantial levels of safety and security, plus the option of coloured glass products to create strikingly different architectural effects.

For further information on S-LEC, visit [www.s-lecfilm.com](http://www.s-lecfilm.com) or [www.s-lec.nl](http://www.s-lec.nl)

