



**Architectural**  
Commercial / Residential





## Intelligent Living By IQue™ - Cooler, Brighter and Energy Efficient Buildings

Engineered by V-KOOL®, IQue™ offers an extensive range of applied films for the architectural market. From virtually clear films capable of rejecting high amount of sun's heat without changing the existing appearance of existing glass, to safety and security films that are able to counter hazards commonly associated with shattered glass.

### The Problem with Glass

Over the last decade, the role of glass in buildings has evolved tremendously. Where glass was previously restricted to only small areas, constant innovations have resulted in the increased usage of glass as a key building material. Today, glass is a prominent building material and this trend is on the rise.

With concerns of increasing energy demand required to cool and light up buildings; the clear solution needed is to reduce significant amounts of the building's heat from the sun, maximize daylight harvesting and achieve savings in energy bills.



### Solar Control Films

Engineered by V-KOOL, the IQue Architectural Film rejects over 90% of infrared rays while allowing more than 70% visible light to pass through. In short, the film rejects heat without sacrificing light.

### Keep out the Heat, Let in the Light

IQue solar control films offers a high heat rejection solution that cuts out heat generating Infra-red radiation and yet allows maximum visible light to pass through. Effectively utilizing light coming from the sun while keeping out uncomfortable heat.

### Building Aesthetics Maintained

IQue's clear films maintain building's original design aesthetics which are critical for retail display and view windows.

### Ultra-violet Protection

IQue solar control films also rejects up to 99% ultraviolet rays, protecting the occupants from harmful ultra-violet rays as well as reduce fading of the furniture and fittings in the rooms.

### Sustainable Building Solution

IQue Solar Control films are able to reduce building's energy consumption by about 15%\* by reducing cooling load demand from HVAC systems and reduce lighting requirements by increasing daylight harvesting.

### Safety and Security Films

IQue Safety and Security films are rigorously tested and designed to withstand impact and hold glass together when shattered. Engineered with high-tensile polyester, powerful adhesive system and scratch-resistant coatings; IQue Safety and Security films are able to provide exceptional blast mitigation and impact resistant capabilities from sudden glass shattering.

### Decorative Films

IQue Decorative films provide an extensive suite of avant-garde window film designs that allow easy re-styling and retrofitting of glass facades and architectural spaces. Available in standard or customized designs, IQue Decorative Films can bring to life your creative ideas for window design.



### A Technological Breakthrough

With the revolutionary technology that enabled the construction of multi-layered metals on PET films through a sputter-metalized, dielectric coating process - The world's first and only spectrally selective window coating was developed to filter out unwanted and harmful infrared and ultraviolet rays, while allowing high amounts of visible light to pass through.

The end product is an optically clear, virtually transparent protective barrier against the sun's heat and radiation – all embedded in the film less than 50 microns thick.

With the Generation 2 films, IQue has gone beyond all frontiers to develop the world's first 10 multi-layer sputtered film. Over a decade of extensive research and experiments resulted in the development of a technologically advanced film that is able to reject up to 96% of infra red radiation, achieve a solar heat gain coefficient (SHGC) of 0.4 and yet allow up to 58% of daylight to be transmitted through the glass windows. The lowest ever visible light reflectivity for windows at 7% maintains the aesthetics of natural transparency of glass – which architects prefer.



## IQue™ : Superior Features and Benefits

### Overview

### Benefits

#### Advanced Solar Control

- Improve comfort levels of homes and offices by rejecting heat (IR) rays
- Protect furnishing and upholstery from sun fading
- Provide choices of clear view or effective glare control
- Lower indoor temperature by at least 6 degrees Celsius\*
- Provide monetary savings with reduction in cooling cost

#### Safety & Security

- Reduce risk of injury with the ability to retain glass splinters and fragments
- Protect additional resistance to "smash and grab" theft
- Effective in mitigating glass fragment hazards
- Capable of sustaining sizable pressure and shock waves common in bomb blast & explosion

#### Decorative

- Enhance aesthetic appeal of architectural glass spaces
- Offer cost effective and flexible decorative solutions to enhance your homes and offices
- Offer solutions to the needs of privacy and glare control
- Customized design to meet your creative needs

#### Disclaimer

\*The temperature reduction mentioned is an estimate based on the evaluation of several projects conducted by IQue. It does not constitute a recommendation, endorsement, certification or warranty for the product tested. Actual performance of the product may vary under different glass facade and operating conditions.

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