

Switchable Security Film® Data Sheet

A.K.A Riot Tint®

Version 1.3 - April 2024



Company overview

Switchable Security Film® aka Riot Tint® is the world's first Smart Security Film®! Riot Tint® powered by Smart Tint® retrofits to any new or existing smooth glass surface. Instant Privacy on Demand with a punch. It will create a barrier slowing down intruders when the glass is broken.

Rigorous Testing

Switchable Security Film® (also known as Riot Tint®) has undergone rigorous testing at a leading laboratory, where it was thoroughly evaluated for both tensile strength and fire safety. Our tests confirmed that the Switchable Security Film® not only meets but exceeds the stringent standards required for tensile strength and flammability resistance, ensuring optimal performance in demanding environments. Switchable Security Film® is proven to provide enhanced security and safety, making it an ideal choice for applications requiring superior protection and reliability.

CONSISTENCY & RELIABILITY

The Switchable Security Film®, also known as Riot Tint®, has demonstrated remarkable consistency in its performance across rigorous testing environments. The tensile tests reveal a very narrow standard deviation in key metrics such as elasticity and tensile strength, underscoring the material's uniform behavior under stress. Similarly, in flammability testing, the film consistently maintained a burn rate significantly below the maximum allowable limits, with a minimal variance among individual samples. This level of consistency not only highlights the reliability of the product but also assures that each batch of Switchable Security Film® meets the high standards expected by our clients. Such dependable performance is crucial for applications where safety and security are paramount, ensuring that the product behaves predictably when exposed to mechanical stresses or high temperatures.

Riot Tint® Full Specifications

	Riot Tint®
Switching Speed	Off -> On 50-100 Milliseconds On -> Off 200-300 Milliseconds
VLT % (Total Visible Light)	89% Powered On Clear - 5% Powered Off Private
Operation Temperature	-10°C -> 60°C
IRR % (Total Infrared Rejection)	98%
UVR % (Total UV Rejection)	99%
Material Thickness (mil)	2mil
Privacy Control	Yes
Heat Control	Yes
Glare Control	Yes
Fade Control	Yes
Security Control	Yes

UV Blocking

99%

of UV Rays Blocked by
Riot Tint®

Elasticity

0.5161%

Tensile Strength at Break

199.4 Ksi

Burn Rate Performance

92 mm/min

Riot Tint® Thickness

2 MiL

Riot Tint® Warranty

3 Year Limited

a Smart Tint® Company:

Switchable Security Film® and Riot Tint® revolutionize window security by offering instant, on-demand privacy and protection. These innovative films quickly change from transparent to opaque with a simple switch, effectively blocking visibility and safeguarding occupants from external threats. Ideal for both residential and commercial applications, they enhance safety without the need for complex installations or manual operation.

Every Second Counts:

"Every Second Counts" with Switchable Security Film®, instantly transitions from clear to opaque. This rapid response blocks visibility, offering immediate protection from potential threats.

Made in America

