

Technical and Performance Specifications

The SD1000 and SD1010 films were developed with the guidance of the U.S. Government. Llumar Signal Defense Security Films exceed the recommended specifications for optically clear RF/IR and UV attenuating films and provide blast hazard protection.

- Llumar Signal Defense SD1000
- Llumar Signal Defense SD1010

Visible Light Transmission (400–780 nm)	Approximately 70%
Visible Light Reflectance (400–780 nm)	9%
Total Solar Energy Rejected	>50%
Shading Coefficient	0.55
Solar Heat Gain Coefficient	0.47
Ultraviolet Transmission (<380 nm)	<1%
Infrared Ray Transmission (940 nm)	<3%
RF (30 MHz–6 GHz)	>33 dB
Approximate Thickness (SD1000)	>0.002 inches
Approximate Thickness (SD1010)	>0.010 inches

More about Llumar

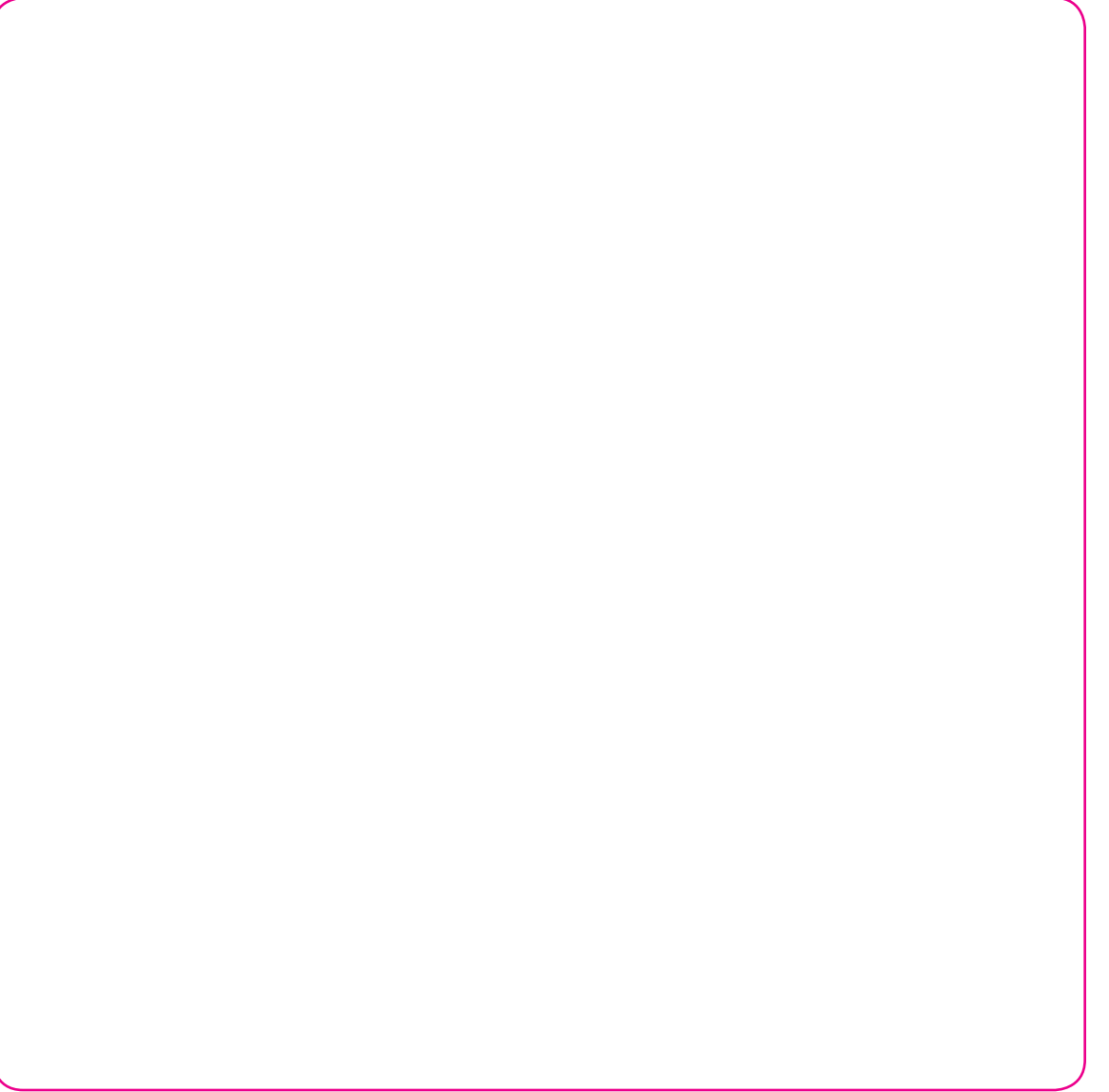
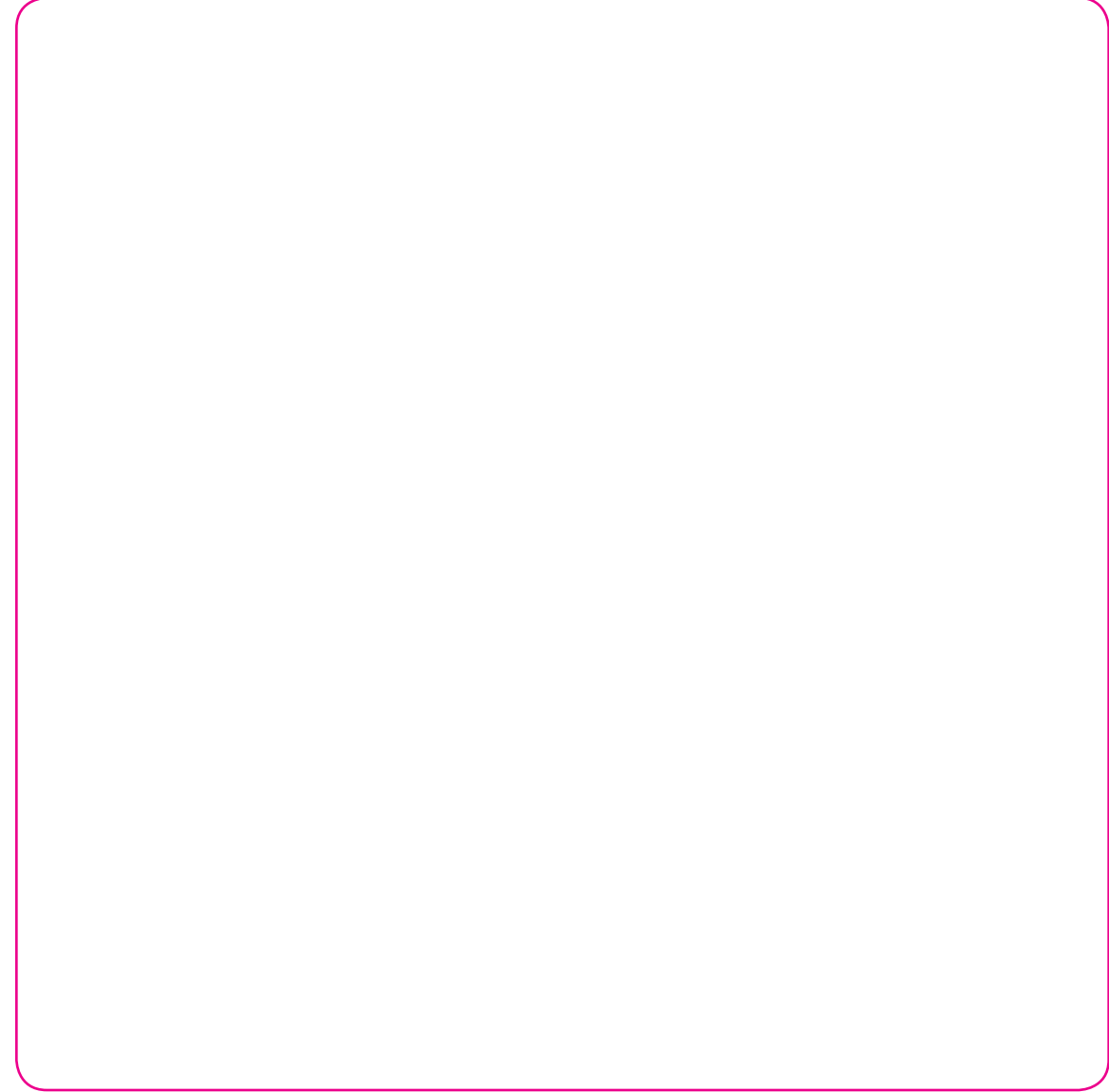
Llumar Signal Defense Security Films are manufactured by CPFilms Inc., the world leader in protective window treatments. Llumar has been protecting commercial buildings and residences for decades. From our ISO 9001 certified manufacturing facility, Llumar produces a wide range of strong and visionary solutions for specialized applications that include architecture, industrial design, information technology, defense, aerospace, automotive, agricultural, energy conservation and reprographics.

Llumar® is a registered trademark of CPFilms Inc.
Signals Defenses® is a registered trademark of American Solar Tinting.
Security films include Signals Defenses® technology
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Electronic Asset Protection
Maximum Energy Savings





Film sample glues above ↪

FULL SPECTRUM WINDOW PROTECTION

Guard your information—and your people—with LLumar® Signal Defense Security Film.

Electronic Assets: Secure or Susceptible?
Your information is valuable. And it's not unrealistic to think that someone is trying to get their hands on it. To prevent this, your organization may employ security measures that range from commonplace to exotic.

The proliferation of decentralized client-server computing environments and the use of wireless LANs, work stations, laptops, cell phones, Bluetooth technology and PDAs has allowed data to be readily accessible virtually anywhere. Even the most sophisticated InfoSec methods of securing your electronic assets within the network are susceptible to surveillance once data is displayed. It's the Achilles heel of any IT security strategy.

Why? Radio frequency (RF) and infrared (IR) signals generated from electronic and voice devices within a building "leak" through the glass windows to the outside world, introducing a significant security threat.

This RF/IR signal leakage allows unauthorized parties to monitor, eavesdrop, record and steal confidential and valuable electronic information and voice conversations from an organization even though encryption and other cyber security protections have been deployed.

Your Information Technology. Our Film Technology.

RF and IR signals leakage can be blocked by deploying LLumar Signal Defense SD1000® Security Film on windows and glass portions of the building, offering upwards of 35 dB attenuation to wireless signals. If wireless signals are not accessible to others, then miscues with respect to LAN encryption, authentication, VPN, and firewall rules can still be protected until they are corrected.

Consider it a necessary precaution to ensure that privileged and confidential information remains just that.

Secure. And Green.

Protection of your electronic assets should be your primary reason for selecting LLumar Signal Defense Security Film. But it pays for itself in other ways. For instance, the SD1000 film has the highest TSER rating of any product worldwide, making it a great choice for LEED certified buildings. Plus, it reduces harmful and damaging electromagnetic interference (EMI) emissions to provide your staff with a healthier and safer work environment.



SD1000 / SD1010 Window Protection for Your Electronic Assets

- Wireless LAN Security (802.11X)
- Eavesdropping Mitigation
- Electromagnetic Interference (EMI)
- Blast Hazard Protection
- Maximum Solar Energy Rejection

RF and IR are typical values as tested by the U.S. Department of Defense. Additional technical specifications can be obtained by contacting your LLumar representative or ASTIC Signals Defenses, LLC.

Market Applications

LLumar Signal Defense Security Film was developed in cooperation with the U.S. military. But its usefulness extends into the civic, commercial and private sectors as well. For instance:

- Critical Infrastructure: Energy, Transportation and First Responders
- State and Local Government
- Law Enforcement Agencies and Courts
- Financial Institutions: Banks, Insurance Firms and Brokerages
- Healthcare: Hospitals, Clinics and Pharmaceutical Firms
- Privacy for High Profile / High Net Worth Individuals
- Technology-driven Enterprises
- High Interest / Controversial Organizations

