



Protective Overlays

TouchSystems

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Education

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Medical

TouchSystems offers the highest quality in acrylic and glass protective overlays for LCD products on the market today, providing an economical, durable solution. Protecting your investment while allowing for high optical characteristics, these overlays come in two main options: Acrylic (3mm) and Chemically Strengthened Glass (3mm). TouchSystems' Protective Overlays are available in a variety of sizes and can be customized to your specifications.

Healthcare

Protect your display from harsh and abrasive chemicals used for the sterilization of equipment in medical environments.

Public Kiosks

Reduce risk of spreading bacteria and viruses between visitors with an easy-to-clean protective surface.

Digital Display System

Guard your LCD from public abuse and general weather conditions, such as sudden temperature changes and water spray.

Comparison of Overlay Features & Benefits

	Acrylic	Chemically Strengthened Glass
Weather Resistance	This acrylic protectant does not deteriorate after years of extreme elements because of the inherent stability of its acrylic resins.	Glass overlays are extremely hard and durable and have high scratch and impact resistance.
Safety	If broken, this acrylic overlay fractures into larger pieces, resisting impact better than glass, meeting the requirements for use as a safety glazing material in buildings.	Chemically strengthened glass is exceptionally strong and is approximately 3Xs stronger than other glass overlays, but if broken, it breaks into long, thin splinters.
Rigidity	This protective overlay is more rigid than other plastics such as acetates, polycarbonates or vinyls but not as rigid as glass.	This glass overlay is extremely hard and rigid and does not change shape, although it may bow under intense pressure because it is so thin.
Thermal Shock and Stresses	The acrylic coating is the most resistant overlay to thermal shock and stress caused by substantial temperature differences.	Chemically strengthened glass is moderately resistant to thermal shock and stress and withstands up to 24,000 psi.
Heat Resistance	TouchSystems' Acrylic Overlay can be used at temperatures from -30°F (-34°C) to +190°F (+88°C), depending on the application.	TouchSystems' Glass Overlay can be used at temperatures from -30°F (-34°C) up to +190°F (+88°C), depending on the application.
Light Transmission	Acrylic overlays have a light transmittance of 92% and do not lose more than 3% of its light transmitting ability in a 10-year period.	Glass overlays have a light transmittance of 92% which will not reduce over time.
Chemical Resistance	TouchSystems' Acrylic Overlay is resistant to many common chemicals: Acids - sulfuric acid (30%), citric acid (20%), hydrochloric acid, hydrogen peroxide, ammonium chloride Aliphatic hydrocarbons - hexane and VM&P naphtha Other substances - heavy duty detergent solution, ammonia, battery acid, kerosene, mineral oil, olive oil, cottonseed oil, turpentine, ethylene glycol and water	TouchSystems' Glass Overlay is resistant to many common chemicals: Acids - sulfuric acid (30%), citric acid (20%), hydrochloric acid, hydrogen peroxide, ammonium chloride Aliphatic hydrocarbons - hexane and VM&P naphtha Other substances - heavy duty detergent solution, ammonia, battery acid, kerosene, mineral oil, olive oil, cottonseed oil, turpentine, ethylene glycol and water

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