



Transparent Armor

Texstars has been a world leader in laminating transparent materials for aerospace and ballistic protection applications since the 1960s.

This core competency allows us to produce transparent armor with high-optical definition with optional performance characteristics such as laser-absorption, electrically-heated de-ice/de-fog, radar absorption, EMI shielding, low observable, abrasion-resistance and radar frequency attenuation.

Defeat levels from small arms fire to multi-shot 50-cal and frag are laminated and delivered on-time with value-added frame hardware and next-higher assemblies. Innovative research and development efforts in the aerospace industry have successfully evolved to support the advancement of transparent armor for the military ground defense market.

Texstars is positioned to take advantage of new transparent materials as they emerge. Stronger lightweight material technologies will allow us to continue to offer superior quality with excellent customer service and exemplary program support.



Key Benefits and Features

- Superior Optics
- High Visibility Light Transmission
- Night Vision Compatibility
- Laser-Absorbing Coating
- Superior UV Resistance
- De-Icing & De-Fogging
- Rain & Fungus Resistant
- Chemical Resistant
- Electronic Shielding
- Tested & Certified
- Proven Service Life Performance

Transparent Armor

Texstars can design protective cross-section solutions to defeat multiple threat levels while providing excellent thermal efficiency, specific spall ply protection and enhanced all-weather performance. The objective to defeat your specific threat is critical and Texstars can provide the margin of safety necessary in today's battlefield.

Laminating glass and polycarbonate with Texstars' proprietary interlayers and protective abrasion-resistant coatings yields lightweight transparent armor that has excellent light transmission, minimal haze and extended environmental and UV-resistant durability.

Texstars established our aerospace reputation in laminating transparent materials with superior optics. This expertise has been brought down to earth to support the armored military vehicle market.

Transparent Armor Platforms

- A-1 Abrams Tank
- Bradley Fighting Vehicle
- Stryker Mobile Gun System
- MRAP
- LAV-AD
- HMMVE
- M113
- HEMTT
- MTRV
- LSV
- Paladin
- M88

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Transparent Armor Gun Shields (TAGS)

In 2004, Texstars and BAE Systems initiated a partnership to design, build and supply ballistic turret surrounds for multiple military armored vehicle platforms. These Transparent Armor Gun Shields or more commonly called TAGS were installed to provide ballistic protection from small arms fire for the gunners of these vehicles.

Texstars' role was to laminate transparent armor and mount into armored metallic frames. Within weeks of their introduction they were put to the test and U.S. troops were successfully protected from active enemy fire.

This concept has set a new safety standard for military ground vehicles. This life saving feature is now incorporated in the production of virtually all new armored vehicles.

