

TUFFAK HYGARD CG500 PRODUCT DESCRIPTION

TUFFAK Hygard CG500 laminate is a three-ply TUFFAK polycarbonate sheet for specialty vehicle glazing applications. TUFFAK Hygard CG500 laminate features abrasion and UV resistant hard coated surfaces for extended service life in harsh environments.

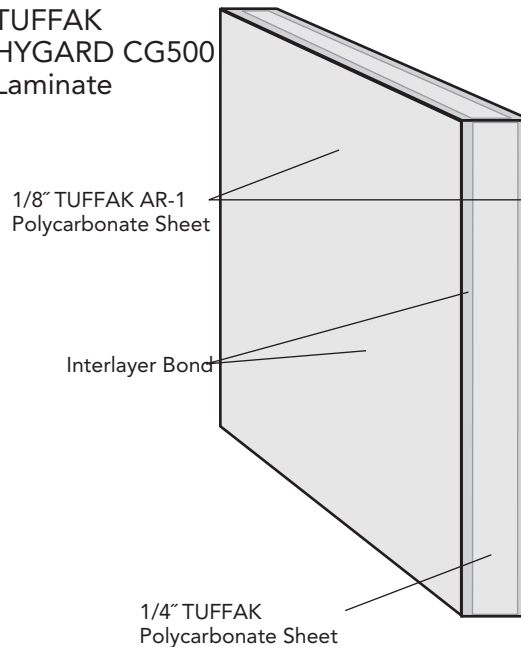
APPLICATIONS:

Used primarily in detention facilities and jail glazing to meet specific requirements for protection against forced entry/egress into or from controlled areas. CG500 is also used as cab glazing in off-road heavy equipment to protect operators from debris and projectiles.

Typical Physical Properties

Gauge/Tolerance	.530 ± 5%
Weight	3.3 lbs./s.f.
Shading Coefficient	.90
% Light Transmittance	83% (clear)
Colors	Standard: Clear Custom Colors on request
Sheet Sizes	Standard: 38" x 96" 48" x 96" 60" x 96" Custom Sizes on request

TUFFAK HYGARD CG500 Laminate



FORCED ENTRY, BALLISTICS RATINGS

H.P. WHITE TP 0500.01 Level II Step 12
H.P. WHITE TP 0500.01 Level A Ballistics (.38 Special)
ASTM F 1233 Class III Step 15

GLAZING RECOMMENDATIONS

- Structural security framing systems with equal or greater forced entry and/or ballistics ratings as the selected Hygard laminate are recommended
- Hygard laminate should be cut to allow for a minimum of 1" edge engagement in the frame with sufficient rabbet depth for material expansion (approx. 1/16"/ft)
- Use wet or dry sealants/gaskets that are compatible with polycarbonate
- Remove protective masking after glazing operations are completed and before prolonged exposure to direct sunlight, moisture, or high temperature.

CLEANING INSTRUCTIONS

- Rinse with clean water to remove abrasive dust and dirt.
- Wash with soap or mild detergent using a sponge or soft cloth. Do not scrub.
- Rinse once more. Dry with a soft cloth or chamois to prevent water spots.
- To remove labels, stickers or grease, rub gently with a cloth wetted thoroughly in VM & P naphtha or isopropyl alcohol. Wash & rinse. Do not use razor blades, scrapers or squeegees.

Product Specification

Tuffak Hygard CG500 laminate:
Three-ply, clear Tuffak Polycarbonate sheet constructed as follows:

- 1/8" Tuffak Polycarbonate sheet with high AR abrasion resistant surface
- Polyurethane bonding interlayer
- 1/4" Tuffak polycarbonate sheet
- Polyurethane bonding interlayer
- 1/8" Tuffak polycarbonate sheet with high AR abrasion-resistant surface

Material shall have a flexural strength of at least 13,500 psi per ASTM D-790; and shall have AR (high performance abrasion-resistant) surfaces for enhanced service life and resistance to marring. Material shall exhibit a self ignition temperature of 1077°F and a flash ignition temperature of 872°F (ASTM D-1929), and conform with ICBO & BOCA Model Building Codes as a CC-1 rated Approved Light Transmitting Plastic.