

A **complete** product line,
no matter what your **sign**.

Tuffak®

Tuffak® XL

WEATHERABLE POLYCARBONATE SHEET

What's your sign? Taurus tend to have strong characteristics – they're solid, practical and good craftspeople with a keen aesthetic sense. That's why Tuffak® XL weatherable polycarbonate sheet is your material. It's virtually unbreakable and UV-resistant to fight yellowing and help keep colors truer, longer.

- Built-in UV barrier.
- Highest impact of Altuglas line.
- Designed specifically for sign applications.
- Improved whiter white.
- Thermoformable.
- UL recognized.
- Thicknesses from 0.080" to 0.500".
- 10-year warranty against yellowing and loss of light transmission.

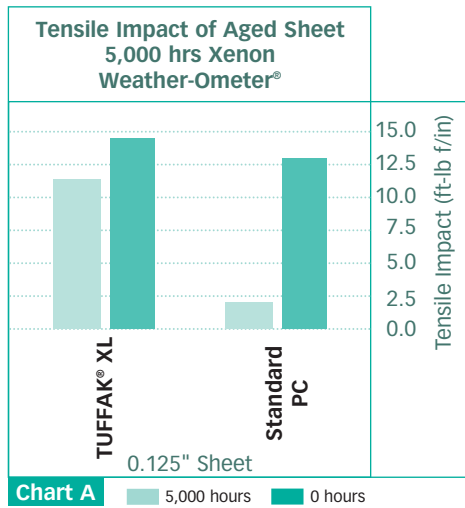
Tuffak® XL

WEATHERABLE POLYCARBONATE SHEET

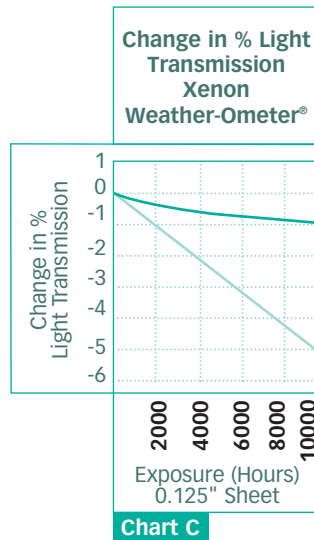
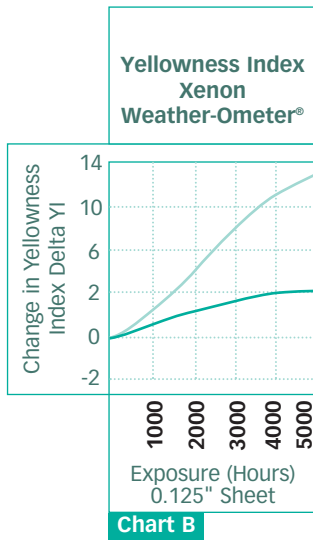
Tuffak® XL weatherable polycarbonate sheet is a newer grade of polycarbonate sheet product from Altuglas International. It's 300 times stronger than single-strength glass and significantly stronger than other transparent sheet materials.

Tuffak® XL polycarbonate sheet is produced via a proprietary process that creates a built-in UV barrier. As a result, sign makers using this sheet gain many advantages, including extended life of its impact properties, longer-term yellowing resistance and higher light transmission over standard, general-purpose polycarbonate sheet.

Chart A shows how Tuffak® XL polycarbonate sheet retains its impact strength over standard polycarbonate sheet.



Measured increases in yellowness or the Yellowness Index (YI) are related to the length of exposure time and are a result of the degradative effects of UV radiation. Chart B shows the increase in resistance to yellowness of Tuffak® XL polycarbonate sheet over standard polycarbonate sheet.



Surface haze and yellowing will combine to reduce light transmission through a sign material. As shown in Chart C, Tuffak® XL polycarbonate sheet retains a high degree of light transmission over standard PC, allowing your sign image to remain crisp and clear for a longer period of time.

STANDARD OFFERING

Colorless and 25710 White

THICKNESS	SHEET SIZE	REEL WIDTHS
0.093"	48" x 96"	52"
0.118"	60" x 96"	64"
0.150"	72" x 96"	76"
0.177"	52" x 100"	100"
0.220"	64" x 100"	
0.236"	76" x 100"	

For more information, contact your local Altuglas International sales representative or call 800-523-7500.

Altuglas International

Arkema Inc.
2000 Market Street
Philadelphia, PA 19103-3222
Tel. 215-419-7000
Fax 215-419-5512
www.altuglasint.com
www.plexiglas.com

Tuffak® polycarbonate is a combustible thermoplastic. Observe fire precautions appropriate for comparable forms of wood and paper. For building uses, check code approvals. Impact resistance is a factor of thickness. Avoid exposure to heat or aromatic solvents. Clean with soap and water. Avoid abrasives.

The statements, technical information and recommendations contained herein are believed to be accurate as of the date hereof. Since the conditions and methods of use of the product and of the information referred to herein are beyond our control, Arkema expressly disclaims any and all liability as to any results obtained or arising from any use of the product or reliance on such information; NO WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE, WARRANTY OF MERCHANTABILITY OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, IS MADE CONCERNING THE GOODS DESCRIBED OR THE INFORMATION PROVIDED HEREIN. The information provided herein relates only to the specific product designated and may not be applicable when such product is used in combination with other materials or in any process. The user should thoroughly test any application before commercialization. Nothing contained herein constitutes a license to practice under any patent and it should not be construed as an inducement to infringe any patent and the user is advised to take appropriate steps to be sure that any proposed use of the product will not result in patent infringement.

See MSDS for Health & Safety Considerations. Altuglas® and Tuffak® are registered trademarks of Arkema. Weather-Ometer® is a registered trademark belonging to Atlas Material Testing Technology LLC. ©2006 Arkema Inc. All rights reserved. ADV# 05-053R/CV/APL/9-06/3M

— TUFFAK® XL — Standard PC