

# UltraTuf® CX Copolyester Sheet



**UltraTuf® CX Copolyester sheet** provides excellent impact properties for a myriad of applications. This unique Polyester Alloy has been formulated with impact strength, clarity and notch sensitivity improvements as its target. It can be used for a number of applications, including P-O-P, Face Shields, fluorescent covers and the Architectural Glazing market. With extreme impact strength and excellent thermoforming capabilities, the product is ideal for large sheet forming and fabrication. This product can be extruded in gauges from .010" - .236".

**For outdoor applications, we have 2 different UV packages depending on requirements. A traditional UV co-extruded layer is a standard part of Spartech's portfolio. The key features of this material include superior outdoor weathering, high impact, 93% light transmittal and excellent forming characteristics.**

In addition Spartech also offers a new UV product under the trade name UltraTuf® CX-D which has Miami-Dade County approval. This new UV system passed the strenuous testing requirements and has received a notice of acceptance by the Miami-Dade County Florida Building Code Compliance Office (Miami-Dade County, Florida; NOA 06-1214.02, Expiration Date: 05/20/2012)

## Features and Benefits

- Excellent chemical resistance
- Available in matte one or two sides and colors
- Die cuts with ease
- Cost savings in forming process
  - ♣ Drying is not required for forming operations
  - ♣ reduced energy required to form

## Target Markets & Applications

UltraTuf® CX Copolyester sheet is a great choice for a wide range of applications and market segments

- Skylights
- Vending Faces
- Kiosks
- Machine Guards
- Graphic Arts
- P O P and Store Fixtures

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## Processing

**UltraTuf® CX Copolyester sheet** - can be thermoformed in standard thermoforming ovens. Sheet material can be formed over wood, composite and aluminum cooled tooling. Care must be taken in forming to heat sheet evenly and not to overheat sheet. Stock temperatures of approximately 270° F - 310° F are recommended for proper forming. As with any thermoplastic material, care should be taken to account for the coefficient of thermal expansion when considering part fit and tooling design parameters.

## Colors & Textures

**UltraTuf® CX Copolyester sheet** – can be offered in clear, white or colors. Allow 4-6 weeks for color matching.

**Available Textures** –Smooth, Matte, and Prismatic.

## Availability

**UltraTuf® CX Copolyester sheet** - is a custom extruded sheet product.

- **Sheets Size** maximum width is 64" depending on gauge. Prismatic and Matte texture maximum width is 60".
- **Gauges** 0.010 – 0.375

**Minimum Order** 5,000 lbs.

## Contact Information

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## Summary of Properties

Typical physical and mechanical properties of **UltraTuf® CX Copolyester sheet** - are detailed below.

Property	Test Method	Units	Data
Specific Gravity	D-792		1.23
Tensile Modulus	D-638	(psi)	260,000
Tensile Strength	D-638	(psi)	7,700
Flexural Modulus	D-790	(psi)	290,000
Flexural Strength	D-790	(psi)	10,300
Izod Impact, notched	D-256	(ft-lbs./in.)	
	73°F		NB
	32°F		2.2
	-22 °F		1.6
Heat Deflection Temp	D-648	(°F @ 264 psi)	163
		(°F @ 66 psi)	171
Hardness	D-785	Rockwell	107
Gloss @ 60°	D-2457	(%)	150
CLTE	D-696	(in./in./°F)	4.26 x 10 <sup>-5</sup>
Flammability	UL94 HB		Passes
ICC-ES ESR-1407			Certified
Miami-Dade County, Florida NOA			06-1214.02
Expiration date: 05/20/2012			