

UltraTuf[™] SG

High Performance Copolyester Sheet

Product Description

UltraTuf™ SG, manufactured using Eastman Tritan™ copolyester, is an ideal material for signage and glazing applications. Its strength and versatility provide ease in fabrication using many techniques, including thermoforming, cutting and routing. Due to excellent formability at low temperatures, UltraTuf SG can be thermoformed after decoration with vinyl graphics and screen inks.

UltraTuf SG provides the strength and formability required without sacrificing superior design aesthetics.



Value Solution

UltraTuf SG offers exceptional forming detail, improved material distribution, short heating and cooling cycles, and no pre-drying. These features allow sign manufacturers to save on energy, labor and production costs.

Key Characteristics

The primary features and benefits of UltraTuf SG sheet are:

Excellent toughness

Ease of fabrication

High heat resistance

Outstanding weatherability

Chemical resistance



Exceptional clarity

Available in clear or white

Custom colors available upon request

Markets and End-Use Applications

Intended for indoor or outdoor sign faces.

Other applications include glazing, fixtures, displays and skylights.

UltraTuf™ SG Physical Properties

PROPERTY	TEST METHOD	UNIT	ULTRATUF SG
Specific Gravity	ASTM D792	-	1.18
Rockwell Hardness, R Scale	ASTM D785	-	114 (114)
MECHANICAL			
Tensile Stress @ Yield	ASTM D638	psi	6,527
Tensile Stress @ Break	ASTM D638	psi	6,672
Flexural Modulus	ASTM D790	psi	218,000
Izod Impact Strength - Notched			
@23°C (73°F)	ASTM D256A	ft-lb/in	18.9
@0°C (32°F)	ASTM D256A	ft-lb/in	18.8
@-30°C (-22°F)	ASTM D256A	ft-lb/in	2.5
Izod Impact Strength - Unnotched			
@23°C (73°F)	ASTM D256A	ft-lb/in	No break
@0°C (32°F)	ASTM D256A	ft-lb/in	No break
@-30°C (-22°F)	ASTM D256A	ft-lb/in	22.8
THERMAL			
Heat Deflection Temperature			
@ 264 psi	ASTM D648	°F (°C)	196(91)
@ 66 psi	ASTM D648	°F (°C)	211(99)

Properties reported here are based on limited testing.