



TOUGHTEX

ToughTex: Superior Flag Fabric for High Performance and Durability

Introduction

ToughTex represents the latest in flag fabric technology, designed for durability and performance. With enhanced tensile strength and tear resistance, ToughTex stands out as a superior option for robust, high-performance flag applications, especially in challenging environments.

1. Exceptional Tensile Strength in the Longitudinal Direction

Compared to standard fabrics, ToughTex offers significantly higher tensile elongation in the longitudinal direction. With an elongation capacity of **70%**—almost three times that of conventional options—ToughTex resists stretching under high wind loads, helping flags maintain their shape and preventing unsightly deformation.

2. Increased Tear Strength for Extended Durability

ToughTex's tear resistance ensures it can withstand more demanding conditions. Its **680 N/5 cm tear strength in the cross direction** surpasses that of typical fabrics, providing extra resilience against high-stress environments. This makes ToughTex ideal for flags exposed to prolonged outdoor conditions, reducing the need for frequent replacements.

3. Consistent Flame Retardancy

ToughTex conforms to the stringent **B1 / EN13501 flame retardancy** standards, aligning with high safety expectations without compromising fabric quality. This feature ensures the fabric can be safely displayed in both indoor and outdoor settings where fire safety compliance is required.

4. Perfectly Sized for Versatile Applications

With a **320 cm width**, ToughTex offers flexibility for large or small flag designs, minimising seams in oversized banners and contributing to a professional finish.

Conclusion

ToughTex provides a compelling upgrade for applications requiring greater strength, durability, and reliability in a flag fabric. Its advanced tensile and tear resistance qualities make it ideal for customers seeking long-lasting value, whether for events, advertising, or extended outdoor exposure.

ToughTex Technical Specifications

Specification	Details	Explanation
Material	100% Polyester	Durable, lightweight material perfect for long-term outdoor use.
Stock Width	320 cm	Wide format to minimize seams in large flag applications.
Weight	110 g/m ² ±3%	Light enough for ease of movement while maintaining durability.
Flame Retardancy	B1 / EN13501	Certified flame retardant for safety in public spaces.
Tensile Elongation		Indicates flexibility and resistance to stretching:
- Longitudinal (Lengthwise)	70% ±20%	Higher stretch in length direction, resisting deformation.
- Crosswise	30% ±20%	Moderate flexibility across the width for a stable shape.
- Longitudinal (Lengthwise)	Minimum 220 N/5 cm	Strong tear resistance lengthwise, ensuring longer life.
- Crosswise	Minimum 680 N/5 cm	Extra tear resistance across the width, ideal for windy areas.