

# PowerShield®

## FRU ELITE

# TECHNICAL DATA SHEET

### DESCRIPTION

NovaShield® FRU ELITE is a heavyweight fabric for applications requiring flame retardants and UV stability, such as membrane structures. This ELITE product is manufactured with a high strength film laminated to one side and a proprietary coating on the back side. This high strength film is used to enhance abrasion resistance, flex resistance, seam strength, UV resistance and longevity. The scrim is produced in a special weaving pattern to enhance flatness, abrasion resistance, and tear properties.

### FABRIC SPECIFICATIONS

Weave: Woven HDPE scrim using natural FR/UV tapes  
Coating: White flame retardant PE  
Film: White flame retardant PE  
Colour: White FRU only  
Weight: 13.75 oz/yd<sup>2</sup> (466g/m<sup>2</sup>) +/- 5 %

### ROLL SPECIFICATIONS

Cores: 4 inch I.D. or 5 inch I.D. available  
Width: 144 inches (-0, +0.5)  
Length: White/white – 500 yards

*These values are typical data and are not intended as limiting specifications.*

### PERFORMANCE PROPERTIES

The following data are typical values based on ASTM standard tests. These data should not be considered a specification.

<b>Grab Tensile</b> ASTM D5034	Warp 430 lb 1909 N / Weft 400 lb 1776 N
<b>Strip Tensile</b> (N/5cm) ASTM D5035	Warp 265 lb/in (2353)/Weft 250 lb/in (2220)
<b>Tongue Tear</b> ASTM D2261	Warp 100 lb 444 N / Weft 90 lb 400 N
<b>Trapezoidal Tear</b> ASTM D4533	Warp 85 lb 377 N / Weft 85 lb 377 N
<b>Mullen Burst</b> ASTM D3786	665 psi / 4582 kPa
<b>Accelerated UV Weathering<sup>1</sup></b> ASTM G154	100% strength retention after 2000 hrs exposure @ 0.77 W/m <sup>2</sup> /nm, or 1200 hrs exposure @ 1.35 W/m <sup>2</sup> /nm
<b>Low Temperature Bend</b> ASTM D2136	-65°C

### FR PERFORMANCE

This product meets the requirements of NFPA 701 – 2015 (Methods 1 and 2), ASTM E84 -16 (Class 1), CAN/ULC S102-10, CAN/ULC S109-14 (Small and Large Flame tests)

20-year Prorated Warranty – Please see your territory manager for details.

<sup>1</sup> Q.U.V [A-340 Lamps]; 8 hrs UV @ 60°C; 4hrs condensation @ 50°C

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LES INDUSTRIES HARNOIS INC.

1044, rue Principale, St-Thomas, QC, J0K 3L0, Canada  
Tel. 450-756-1041 • 1-888-427-6647 • Fax 450-756-8389  
[info@harnois.com](mailto:info@harnois.com) • [megadomebuildings.com](http://megadomebuildings.com)