

# PowerShield®

RU88X-6, 4 mil (400)

## TECHNICAL DATA SHEET FOR CAN/CSA-S367

### DESCRIPTION

RU88X-6 400 is a heavyweight fabric for applications such as membrane structures and alternate daily landfill covers. The scrim is produced in a special weaving pattern to enhance thickness, flatness, abrasion resistance, and tear properties. The proprietary coating is used to enhance abrasion resistance, flex resistance, seam strength, UV resistance and longevity.

### FABRIC SPECIFICATIONS

Weave: Woven clear HDPE scrim  
Coating: 4 mil average each side  
(95 g/m<sup>2</sup>/side)  
Color: Natural (clear), white, green, blue,  
beige, red  
Weight: 12 oz/yd<sup>2</sup> (407g/m<sup>2</sup>) +/- 5 %  
Thickness: 23 mil (0.59 mm) ASTM D1777

### ROLL SPECIFICATIONS

Cores: 4 inch I.D. or 5 inch I.D. available  
Width: Up to 150 inches (-0, +0.5) as  
ordered  
Length: minimum 250 yds/roll; up to 1000  
yds/roll



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### PERFORMANCE PROPERTIES

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

**Grab Tensile** Warp 370 lb, 1664 N / Weft 345 lb, 1532 N  
ASTM D-5034-09

**Strip Tensile (N/5cm)** Warp 275 lb/in (2444)/Weft 245 lb/in (2178)  
ASTM D-4851-07(2011)

**Strip Tensile, standard deviation** Warp 10.7 / Weft 13.6  
ASTM D-4851-07(2011)

**Factored Membrane** Warp 145 lb/in (1287)/Weft 122 lb/in (1083)

**Resistance (Tr) (N/5cm)**  
CSA-S367-12 where:  $\phi_m = \text{warp } 0.88 / \text{weft } 0.83$ ; H = 1.0; U = 0.75; V = 0.8  
ASTM D4851-07(2011)

**Tongue Tear** Warp 110 lb, 488 N / Weft 100 lb, 444 N  
ASTM D-2261-11

**Trapezoidal Tear** Warp 95 lb, 4220 N / Weft

**Mullen Burst** 655 psi 4512 kPa  
ASTM D-3786-09

**Accelerated UV Weathering<sup>1</sup>** >90 % 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.  
ASTM G154-06 >75 % strength retention after 5000 hrs  
CSA-S367-12 exposure @ 0.77 W/m<sup>2</sup>/nm.

**Accelerated Natural Weathering** >80 % strength retention after 5 Florida  
Standard Years<sup>2</sup>  
ASTM G90-10

**Low Temperature Bend** -60°C  
ASTM D2136-02(2012)

**Coating Adhesion (min.)** Machine Direction 5 lb/in  
ASTM D4851-07 Cross Direction 5 lb/in

**Seam Tensile (shear)** >85% of Strip Tensile\*  
ASTM D4851-07

<sup>1</sup> Q.U.V [A-340 Lamps]; 8 hrs UV @ 60°C; 4hrs condensation @ 50°C <sup>2</sup> 1333 MJ

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\* The strip tensile should be determined by the fabric structure manufacturer to ensure they are >85% of the base fabric strength using their test machines.