



## Duraweave Specifications – 4 mil

**Duraweave™ and Duraweave™ FR are manufactured by Engineered Coated Products™ (a division of Intertape Polymer Group™) as RU88x-6 4 mil and FRU88x-6 4 mil.**

### Common Specifications: Duraweave and Duraweave FR

Coating Thickness		4 mil (94g/m <sup>2</sup> ) average each side
Total Fabric Weight		12.0 oz/yd <sup>2</sup> (407 g/m <sup>2</sup> ) +/- 5%
Thickness	ASTM D-5199	23 mils (0.59 mm)
Grab Tensile	ASTM D-5034	Warp and Weft: 350 lb (1555N)
Tongue Tear	ASTM D-2261	Warp and Weft: 110 lb (489N)
Strip Tensile	ASTM D-5035	Warp and Weft: 240 lb/inch (2100 N/5cm)
Mullen Burst	ASTM D-3786	675 psi (4657 kPa)
Low Temp. Bend	ASTM D-2136	Pass: - 60° C (-76° F)
Light Transmission %	ASTM E-903	White/White: RU88x-6: 20.9% FRU88x-6: 11.4%
Water Vapor Transmission	ASTM E-96	0.038 grains/h/ft <sup>2</sup> /inHg (perms) 2.16 ng/Pa/s/m <sup>2</sup>
UV & Weathering	ASTM G-151	>90% strength retention after 2000 hrs @ 0.77 W/m <sup>2</sup> /nm
UV & Weathering	ASTM G-154	>90% strength retention after 1200 hrs @ 1.35 W/m <sup>2</sup> /nm
Biaxial Test	Summary	Test Results

### Fire Tests: FRU 88x-6 4 mil - Duraweave FR Fabric

Base Fabric	HDPE Scrim using FR inhibitors and UV protection		
Surface Type	Modified LDPE coating using FR inhibitors and UV protection		
California Fire Marshal	FA – 51405		
NFPA 701 - 1989 (Large Scale Test)	04-02-725(A)	Char: 1.4 in. Av.	Drip: No
NFPA 701 – 1989 ( Small Scale Test)	04-02-725(A)	Char: 3.5 in. Av.	Drip: No
ASTM E84-08	08-002-695	FSI: 10	SD: 110
NFPA 701 - 2004 Test Method 1	05-02-885(A)	Mass Loss: 4.7% Av.	Drip: No
NFPA 701 – 2004 Test Method 2	05-02-885(B)	Char: 76 mm (3in.) Av.	Drip: No
CAN/ULC S109-03 (Small Flame)	06-02-866	Char: 98 mm Av.	Drip: No
CAN/ULC S109-03 (Large Flame)	06-02-866	Char: 104 mm Av.	Drip: No
CAN/ULC S102-03	05-02-609	FSCI: 5	SD: 95
UBC 31-1	16421-108891	Char: 8.69 in. Av.	Drip: No
UL	Listed – R15076		
ULC	Listed – R20040		
Federal Standard 191 Method 5903	Pass		
BS 7837:1996	Pass		
BS 6341:1983	Pass		
BS 7157:1989	Pass		
BS 5867: Part 2: 1980	Pass		
EN 13501-1	Fire Behavior: B	Smoke: s1	Droplets: d0

### Fire Tests: RU 88x-6 4 mil - Duraweave NON FR Fabric

Base Fabric	HDPE Scrim with UV protection		
Surface Type	Modified LDPE coating with UV protection		
ASTM E84-01	03-02-586(A)	FSI: 10	SD: 65
CAN/ULC-S102-07	08-002-394	FSCI: 15	SD: 100

A characteristic revealed by these tests is the property of the fabric to be “self extinguishing”. This means simply that the membrane material, though it will disintegrate in the presence of flame, cannot itself support combustion nor contribute fuel to a fire. If the source of the fire is removed, the fabric will self extinguish and combustion will cease.

Other characteristics and properties of the Duraweave fabric are as per the MSDS (Material Safety Data Sheets) and Resistance to Chemicals documents.