

TEK AIR® 840D SD/HT

Tek Air® 840D SD/HT is a solution dyed (SD), high tenacity (HT) nylon fabric with a durable TPU coating engineered for RF welding to form fully sealed seams. Solution dyeing locks color into the fiber for superior UV/fade resistance and consistent appearance. The fabric delivers excellent abrasion and stain resistance, easy cleanability, and a flexible, waterproof TPU barrier.

KEY FEATURES



High Tenacity Nylon

Durable, solution dyed 840D yarn for long lasting strength and colorfastness



Abrasion & Stain Resistance

Excellent resistance to wear and staining for high use commercial environments



TPU Coated for RF Welding

Durable TPU barrier engineered for RF welding to create fully sealed, impervious seams



Waterproof & Flexible

Robust waterproof performance without sacrificing flexibility

APPLICATIONS



Healthcare

Waterproof, easy clean fully sealed medical covers and devices



Industrial

Portable water and air bladders for seat cushioning and shock absorption



Marine

Inflatable marine gear, flotation bladders, and drybags



Tactical

Durable, RF welded pack exteriors, weapon cases, and protective pouches

SPECIFICATIONS

Composition

100% 840D high tenacity solution dyed nylon 9 mil TPU

Thickness

0.65 mm

Width

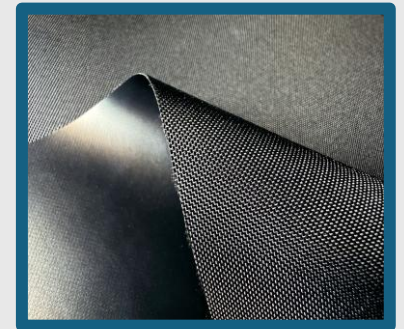
56 inches

Weight

550 gsm

Color/SKU

Black/22091



PERFORMANCE PROPERTIES

Test/Property	Method	Unit/Standard	Results
Tensile Strength	FS191a Method 5100	Min W 410 lbf	Warp: 620 lbf
	Grab Method	Min F 390 lbf W ≥ 60%	Weft: 500 lbf Warp: 31.9%
Elongation at Break	ASTM D751B	F ≥ 60%	Weft: 40.5%
Tearing Strength	FS191a Method 5136	Min W 25 lbf	Warp: 48 lbf
	Tongue Method	Min F 20 lbf	Weft: 32 lbf
RF Welding	FS191a Method 5970	Min W 110 lbf	Warp: 124 lbf
		Min F 100 lbf	Weft: 122 lbf
Water Immersion	ISO5981	100 Cycles	No Damage
Flammability Resistance	CAL TB117-2013	Pass/Fail	Pass