## 2023 Outdoor Fabric Guide

ECOPAK

## **THE ONLY 100% RECYCLED** TECHNICAL PACK FABRIC IN THE WORLD!



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challenge-outdoor.com

Width

 Components
 Weight
 Tear Strength
 Waterproof
 Abrasion

 ASTM D2261
 psi / bar
 ASTM 3884

EPLX | BLUE OCEAN: 100% recycled polyester components, CO DWR (no fluorocarbons), waterproof 0.5 mil RUV matte film backing, recyclable after use. Challenge's proprietary RUV matte film is more abrasion resistant, wrinkles less, and is 97% UV resistant.

<b>EPLX</b> 200	Good choice for a waterproof liner; for small/light packs, add reinforcement for bar-tacks and daisy chain webbing.							
		6 in 42 cm						
EPLX200RS	Lightweight performance of 200d, plus Ripstop to improve tear strength.							
	······································	6 in 42 cm						
<b>EPLX</b> 400	With much better abrasion resistance than 420d nylon, well suited for bags with or without a liner.							
	······································	6 in 42 cm						
EPLX450RS	For a more technical look, the 450d has a 3 mm (1/8") ripstop grid. Very good stitch-holding and durability.							
		6 in 42 cm						
EPLX600 RE/COR	Now with 600d recycled CORDURA polyester face fabric, and improved tear strength and abrasion resistance.							
	,	6 in 42 cm						
<b>EPLX</b> 840	The look, feel, and durability of Ballistic nylon, in 100% recycled polyester.							
		6 in 42 cm						
<b>EPLX</b> 1680	The ultimate in durability for bag bottoms and other areas of high abrasion.							
•		6 in 42 cm						

EPX | GREEN MOUNTAIN: 100% recycled polyester components, CO DWR (no fluorocarbons), 70d Ripstop backing, recyclable after use. Compared to traditional pack fabric with 50d plain weave backing, the 70d Ripstop has better stitch holding and superior tear strength.

EPX7ORS	For small packs/accessories or lining fabric; for more durable bottom, use heavier style.							
	C0 DWR, 70d Ripstop face, 45° Blue CrossPly, 70d ripstop backing	5.05 oz/yd² 171 gsm	Warp: 24.7 lb Fill: 28.7 lb	200+ 13.8+	300 cycles	56 in 142 cm		
<b>EPX</b> 200	Our most popular style All-around performance in 22 colors!							
	C0 DWR, 200d face, 45° Blue CrossPly, 70d ripstop backing	6.4 oz/yd² 216 gsm	Warp: 33.1 lb Fill: 34.6 lb	200+ 13.8+	500 cycles	56 in 142 cm		
<b>EPX</b> 400	Better abrasion resistance than 420d nylon for larger packs, duffels and bottoms of EPX200 packs as needed.							
	C0 DWR, 400d face, 45° Blue CrossPly, 70d ripstop backing	9.08 oz/yd² 308 gsm	Warp: 45.7 lb Fill: 42.9 lb	200+ 13.8+	3,000 cycles	56 in 142 cm		
<b>EPX</b> 600	A tight weave, textured yarn gives EPX600 a supple hand, and comparable durability and abrasion resistance of 500d Cordura.							
	C0 DWR, 600d face, 45° Blue CrossPly, 70d ripstop backing	9.97 oz/yd² 338 gsm	Warp: 42.6 lb Fill: 39.7 lb	200+ 13.8+	2,000 cycles	56 in 142 cm		

## HYBRID: new and recycled components.

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<b>ЕРХ</b> 70НН		Hybrid blend of 70d recycled polyester and nylon	in Charcoal Heathe	er with ab	rasion resistar	nt coating.				
		Liquid Crystal Polymer, 70d face, 45° Blue CrossPly, 70d ripstop backing	5.25 oz/yd² 178 gsm	Warp: 1 Fill: 1	17.8 lb 14.1 lb	200+ 13.8+	1,000 cycles	56 in 142 cm		
EPX 240 Denim		The look and feel of your favorite jeans, made spe	ecially for packs and	d bags in d	a waterproof c	and abrasion r	esistant constru	ction!		
		240d recycled polyester/nylon face, 45° Blue CrossPly, 70d ripstop backing	9.9 oz/yd² 336 gsm	Warp: 3 Fill: 3	37.7 lb 36.0 lb	200+ 13.8+	3,000 cycles	56 in 142 cm		
<b>EPX</b> 400HH		Tightly woven blend of recycled polyester and nyl	on, with abrasion re	esistant co	ating.					
		Liquid Crystal Polymer, 400d face, 45° Blue CrossPly, 70d ripstop backing	9.15 oz/yd² 310 gsm	Warp: 3 Fill: 3	37.8 lb 33.8 lb	200+ 13.8+	15,000 cycles	56 in 142 cm		
<b>EPLX</b> 600 MultiCam <sup>®</sup>		Official MultiCam <sup>®</sup> pattern in polyester with same	look, feel and durab	ility as the	e 500d Cordur	a° MultiCam.				
		C6 DWR, 600d face, 45° Black CrossPly, 0.5 mil RUV film backing	8.85 oz/yd² 300 gsm	Warp: 3 Fill: 3	38.4 lb 30.7 lb	200+ 13.8+	2,000 cycles	56 in 142 cm		
		ULTRA: Ultra fiber (non-branded Dyneema®) blended with polyester.								
<b>ULTRA</b> TNT DS		Ultralight tent/tarp laminated fabric with Ultra We	arp and CrossPly ya	ırn reinfor	cement in Des	ert Sage Gree	n.			
		0.25 mil film, Ultra Warp insert and 45° CrossPly, 0.25 mil film backing	0.94 oz/yd² 32 gsm	does no	ot tear	200+ 13.8+	500 cycles	60 in 152 cm		
ULTRATX50		Light, waterproof All-White polyester laminate esp	pecially for small bag	gs/access	sories; perfect	for Dye-Sublin	nation printing!			
		50d ripstop face, Ultra 45° CrossPly, 0.25 mil film backing	2.4 oz/yd² 82 gsm	does no	ot tear	200+ 13.8+	500 cycles	59 in 150 cm		
ULTRATX70		Similar to TX50, but with 70d Silver recycled ripst	op, and Black Ultra	CrossPly i	instead of whit	te.				
		70d recycled ripstop face, Ultra 45° CrossPly, 0.25 mil film backing	2.9 oz/yd² 98 gsm	does no	ot tear	200+ 13.8+	500 cycles	59 in 150 cm		
ULTRA 100X		Our lightest Ultra pack fabric with twice the tear s	trength and abrasio	on resistan	ce of 500d/80	oz CORDURA.				
		100d face, Ultra 45° CrossPly, 0.75mil film backing	3.3 oz/yd² 112 gsm	Warp: 6 Fill: 8	69.4 lb 39.6 lb	200+ 13.8+	3,600 cycles	58 in 147 cm		
ULTRA200X		At just 3.5oz, Ultra200 exceeds the technical prop	perties of any simila	r weight fo	abric on Plane	t Earth!				
		200d face, Ultra 45° CrossPly, 0.75mil film backing	3.9 oz/yd² 133 gsm		133.2 lb	200+ 13.8+	4,400 cycles	58 in 147 cm		
ULTRA200TX		The technical properties of Ultra200, plus a Cross	Ply yarn and ripstop	o backing	for improved	durability and	stitch-holding.			
		200d Ultra/polyester face, 0.5 mil RUV film, Ultra 45° CrossPly, polyester ripstop backing	5.9 oz/yd² 200 gsm	Warp: 1 Fill: 1	103.1 lb 133.2 lb	200+ 13.8+	4,400 cycles	58 in 147 cm		
ULTRA400X		Great for Ultra200 pack bottoms, or in the whole	pack for high-load	applicatio	ons like Hunting	g packs.				
		400d face, Ultra 45° CrossPly, 0.75mil film backing	5.25 oz/yd² 178 gsm	Warp: 1 Fill: 1	114.5 lb 117.6 lb	200+ 13.8+	8,800 cycles	58 in 147 cm		
ULTRA400TX		The technical properties of Ultra400, plus a Cross	Ply yarn and ripstop	o backing	for improved	durability and	stitch-holding.			
		400d Ultra/polyester face, 0.5 mil RUV film, Ultra 45° CrossPly, polyester ripstop backing	7.2 oz/yd² 244 gsm	Warp: 1 Fill: 1	148 lb 162 lb	200+ 13.8+	8,800 cycles	58 in 147 cm		
ULTRA800X		The ultimate in strength and durability for large p	acks and duffels.							
		800d face, Ultra 45° CrossPly, 0.75mil film backing	8.9 oz/yd² 302 gsm	Warp: 2 Fill: 2	250+ lb 250+ lb	200+ 13.8+	16,000+ cycles	58 in 147 cm		
ULTRA800TX		The technical properties of Ultra800, plus a Cross	Ply yarn and ripstop	o backing	for improved	durability and	stitch-holding.			
		800d Ultra/polyester face, 0.5 mil RUV film, Ultra 45° CrossPly, polyester ripstop backing	10.85 oz/yd² 367 gsm	Warp: 2 Fill: 2	250+ lb 250+ lb	200+ 13.8+	16,000+ cycles	58 in 147 cm		
<b>ULTRA</b> Grid		The world's first recycled nylon grid fabric with do	uble Ultra ripstop – o	and Bluesi	ign approved!					
		C0 DWR, 210d recycled nylon, double Ultra ripstop, 1500mm PU backing	4.3 oz/yd² 146 gsm	does no	t tear	2.13 1.47	1,100 cycles	59 in 150 cm		
<b>ULTRA</b> Stretch		Challenge's own 4-way stretch for strong, abrasion	n resistant pockets a	nd pouche	es.					
	•	C0 DWR, Nylon 6.6 blended with Ultra and stretch fiber	5.5 oz/yd² 186 gsm	does no	ot tear	no	3,000 cycles	44 in 112 cm		