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 ASTM D2261
 Waterproof psi / bar
 Abrasion 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.

EPLX200	Good choice for a waterproof liner; for small/light packs, add reinforcement for bar-tacks and daisy chain webbing.							
	C0 DWR, 200d face, 4.3 oz/yd² Warp: 21.2 lb 200+ 500 45° Blue CrossPly, 0.5 mil matte film 145.8 gsm Fill: 17.2 lb 13.8+ cycles	56 in 142 cm						
EPLX200RS	Lightweight performance of 200d, plus Ripstop to improve tear strength.							
	C0 DWR, 200d Ripstop face, 4.8 oz/yd² Warp: 22.8 lb 200+ 300 45° Blue CrossPly, 0.5 mil matte film 164 gsm Fill: 19.7 lb 13.8+ cycles	56 in 142 cm						
EPLX 400	With much better abrasion resistance than 420d nylon, well suited for bags with or without a liner.							
	C0 DWR, 400d face, 6.9 oz/yd² Warp: 34.4 lb 200+ 3,000 45° Blue CrossPly, 0.5 mil matte film 235 gsm Fill: 26.7 lb 13.8+ cycles	56 in 142 cm						
EPLX450RS	For a more technical look, the 450d has a 3 mm (1/8") ripstop grid. Very good stitch-holding and durability.							
	C0 DWR, 450d Ripstop face, 7.6 oz/yd² Warp: 36.7 lb 200+ 1,500 45° Blue CrossPly, 0.5 mil matte film 257.6 gsm Fill: 28.3 lb 13.8+ cycles	56 in 142 cm						
EPLX600 RE/COR	Now with 600d recycled CORDURA polyester face fabric, and improved tear strength and abrasion resistance.							
	C0 DWR, 600d face, 9.75 oz/yd² Warp: 38.8 lb 200+ 3,000 45° Blue CrossPly, 0.5 mil matte film 332 gsm Fill: 41.1 lb 13.8+ cycles	56 in 142 cm						
EPLX 840	The look, feel, and durability of Ballistic nylon, in 100% recycled polyester.							
	C0 DWR, 840d Ballistic face, 9.85 oz/yd² Warp: 51.3 lb 200+ 4,400 45° Blue CrossPly, 0.5 mil matte film 334 gsm Fill: 49.5 lb 13.8+ cycles	56 in 142 cm						
EPLX 1680	The ultimate in durability for bag bottoms and other areas of high abrasion.							
,	C0 DWR, 1680d Ballistic face, 12.3 oz/yd² Warp: 114.1 lb 200+ 10,200 45° Blue CrossPly, 0.5 mil matte film 416.9 gsm Fill: 107.3 lb 13.8+ cycles	56 in 142 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: 17.8 lb Fill: 14.1 lb	200+ 13.8+	300 cycles	56 in 142 cm	
EPX 200	Our most popular style All-around performance in 22 colors!						
	C0 DWR, 200d face, 45° Blue CrossPly, 70d ripstop backing	5.9 oz/yd² 200.1 gsm	Warp: 26.7 lb Fill: 24.8 lb	200+ 13.8+	500 cycles	56 in 142 cm	
EPX 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	8.95 oz/yd² 304 gsm	Warp: 37.8 lb Fill: 33.8 lb	200+ 13.8+	3,000 cycles	56 in 142 cm	
EPX 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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ЕРХ 70НН		Hybrid blend of 70d recycled polyester and nylon in Charcoal Heather with abrasion resistant coating.							
		Liquid Crystal Polymer, 70d face, 45° Blue CrossPly, 70d ripstop backing	5.25 oz/yd² 178 gsm	Warp: 17.8 lb Fill: 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 a waterproo	f and abrasion	resistant constr	uction!		
		240d recycled polyester/nylon face, 45° Blue CrossPly, 70d ripstop backing	9.9 oz/yd² 336 gsm	Warp: 37.7 lb Fill: 36.0 lb	200+ 13.8+	3,000 cycles	56 in 142 cm		
ЕРХ 400НН		Tightly woven blend of recycled polyester and nyl	on, with abrasion re	esistant coating.					
		Liquid Crystal Polymer, 400d face, 45° Blue CrossPly, 70d ripstop backing	9.15 oz/yd² 310 gsm	Warp: 37.8 lb Fill: 33.8 lb	200+ 13.8+	15,000 cycles	56 in 142 cm		
EPLX 600 MultiCam [®]		• Official MultiCam [®] pattern in polyester with same look, feel and durability as the 500d Cordura [®] MultiCam [®] .							
		C6 DWR, 600d face, 45° Black CrossPly, 0.5 mil RUV film backing	8.85 oz/yd² 300 gsm	Warp: 38.4 lb Fill: 30.7 lb	200+ 13.8+	2,000 cycles	56 in 142 cm		
		ULTRA: Ultra fiber (non-branded Dyneema®) blended with polyester.							
ULTRA TNT DS		Ultralight tent/tarp laminated fabric with Ultra W	arp and CrossPly yc	arn reinforcement in De	esert Sage Gre	en.			
		0.25 mil film, Ultra Warp insert and 45° CrossPly, 0.25 mil film backing	0.94 oz/yd² 32 gsm	does not tear	200+ 13.8+	500 cycles	60 in 152 cm		
ULTRATX50		Light, waterproof All-White polyester laminate esp	pecially for small ba	ngs/accessories; perfec	t for Dye-Subli	mation printing	!		
		50d ripstop face, Ultra 45° CrossPly, 0.25 mil film backing	2.4 oz/yd² 82 gsm	does not tear	200+ 13.8+	500 cycles	59 in 150 cm		
ULTRATX70		• Similar to TX50, but with 70d Silver recycled ripstop, and Black Ultra CrossPly instead of white.							
		70d recycled ripstop face, Ultra 45° CrossPly, 0.25 mil film backing	2.9 oz/yd² 98 gsm	does not tear	200+ 13.8+	500 cycles	59 in 150 cm		
ULTRA 100		Our lightest Ultra pack fabric with twice the tear s	trength and abrasic	on resistance of 500d/	80z CORDURA	Α.			
		100d face, 0.5 mil RUV film backing	2.92 oz/yd² 99 gsm	Warp: 69.4 lb Fill: 89.6 lb	200+ 13.8+	3,600 cycles	58 in 147 cm		
ULTRA200		At just 3.5oz, Ultra200 exceeds the technical proj	perties of any simila	ar weight fabric on Plai	net Earth!				
		200d face, 0.5 mil RUV film backing	3.5 oz/yd² 119 gsm	Warp: 103.1 lb Fill: 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	p backing for improved	d durability and	d stitch-holding.			
		200d Ultra/polyester face, 0.5 mil RUV film, Ultra 45° CrossPly, polyester ripstop backing	5.9 oz/yd² 200 gsm	Warp: 103.1 lb Fill: 133.2 lb	200+ 13.8+	4,400 cycles	58 in 147 cm		
ULTRA400		Great for Ultra200 pack bottoms, or in the whole	pack for high-load	applications like Hunti	ing packs.				
		400d face, 0.5 mil RUV film backing	4.85 oz/yd² 165 gsm	Warp: 114.5 lb Fill: 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	p backing for improved	d durability and	d stitch-holding.			
		400d Ultra/polyester face, 0.5 mil RUV film, Ultra 45° CrossPly, polyester ripstop backing	7.2 oz/yd² 244 gsm	Warp: 148 lb Fill: 162 lb	200+ 13.8+	8,800 cycles	58 in 147 cm		
ULTRA800		The ultimate in strength and durability for large p	acks and duffels.						
		800d face, 0.5 mil RUV film backing	8.5 oz/yd² 288 gsm	Warp: 250+ lb Fill: 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	p backing for improved	d durability and	d stitch-holding.			
		800d Ultra/polyester face, 0.5 mil RUV film, Ultra 45° CrossPly, polyester ripstop backing	10.85 oz/yd² 367 gsm	Warp: 250+ lb Fill: 250+ lb	200+ 13.8+	16,000+ cycles	58 in 147 cm		
ULTRA Grid		The world's first recycled nylon grid fabric with do	uble Ultra ripstop –	and Bluesign approved	d!				
		C0 DWR, 210d recycled nylon, double Ultra ripstop, 1500mm PU backing	3.9 oz/yd² 132 gsm	does not tear	2.13 1.47	1,100 cycles	59 in 150 cm		
ULTRA Stretch		Challenge's own 4-way stretch for strong, abrasio	n resistant pockets a	and pouches.					
•	•	C0 DWR, Nylon 6.6 blended with Ultra and stretch fiber	5.5 oz/yd² 186 gsm	does not tear	no	3,000 cycles	44 in 112 cm		