

The only durable and waterproof pack fabric made from 100% recycled polyester!

Every yard of ECOPAK[™] contains over 20 plastic bottles, and saves over 1 lb. of carbon emissions compared to standard pack fabric.

EPLX I BLUE OCEAN: 100% recycled polyester components, C0 DWR (no fluorocarbons), waterproof 0.5 mil RUV matte film backing, recyclable after use. Compared to other laminated pack fabric with shiny film, Challenge's proprietary RUV matte film is more abrasion resistant, wrinkles less, and is 97% UV resistant.

EPX / GREEN MOUNTAIN: 100% recycled polyester components, C0 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.

OUTDOOR FABRIC GUIDE

EP | HYBRID: new and recycled components.



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	Content	Components	Weight	Tear Strength ASTM D2261	Waterproof psi / bar	Abrasion ASTM 3884	Width	Minimum yards / order				
EPLX 200	Lightweight performance, economical price! Good choice for a waterproof liner. As a face fabric in an ultra light pack, use extra reinforcement for bar tacks and daisy chain webbing.											
	100% recycled polyester components	C0 DWR, 200d face, 45° Blue CrossPly, 0.5 mil matte film	4.3 oz/yd² 145.8 gsm	Warp: 21.2 lb Fill: 17.2 lb	200+ 13.8+	500 cycles	56 in 142 cm	Stock: 10 yds Custom: 1000 yds				
EPLX200RS	Lightweight performance of 200d, plus Ripstop to improve tear strength. Very good as waterproof liner. As face fabric, use extra reinforcement for bar tacks and daisy chain webbing.											
	100% recycled polyester components	C0 DWR, 200d Ripstop face, 45° Blue CrossPly, 0.5 mil matte film	4.8 oz/yd² 164 gsm	Warp: 22.8 lb Fill: 19.7 lb	200+ 13.8+	300 cycles	56 in 142 cm	Stock: 10 yds Custom: 1000 yds				
EPLX 400	The 400d recycled face f	abric has twice the abrasion resistance as st	tandard 420d nyl	on. Well suited for bags	with a separater	liner, or stand-al	one for high d	urability at low weight.				
	100% recycled polyester components	C0 DWR, 400d face, 45° Blue CrossPly, 0.5 mil matte film	6.9 oz/yd² 235 gsm	Warp: 34.4 lb Fill: 26.7 lb	200+ 13.8+	3000 cycles	56 in 142 cm	Stock: 10 yds Custom: 1000 yds				
EPLX450RS	For a more technical look,	, the 450d has a 3 mm (1/8") ripstop grid.	Very good stitch-h	olding and durability at a	moderate price.							
	100% recycled polyester components	C0 DWR, 450d Ripstop face, 45° Blue CrossPly, 0.5 mil matte film	7.6 oz/yd² 257.6 gsm	Warp: 36.7 lb Fill: 28.3 lb	200+ 13.8+	1500 cycles	56 in 142 cm	Stock: 10 yds Custom: 1000 yds				
EPLX 600	A tight weave and texture	ed yarn gives EPLX600 a supple hand with co	omparable durabi	lity and stitch-holding but	double the abras	sion resistance of	f 500d Cordur	a at a much lower price.				
	100% recycled polyester components	C0 DWR, 600d face, 45° Blue CrossPly, 0.5 mil matte film	8.85 oz/yd² 300.1 gsm	Warp: 38.4 lb Fill: 30.7 lb	200+ 13.8+	2000 cycles	56 in 142 cm	Stock: 10 yds Custom: 1000 yds				
EPLX 840	EPLX840 has the look, feel and durability of Ballistic Nylon, in a recycled polyester construction. Great for bag bottoms and other areas of high abrasion.											
	100% recycled polyester components	C0 DWR, 840d Ballistic face, 45° Blue CrossPly, 0.5 mil matte film	9.85 oz/yd² 334 gsm	Warp: 51.3 lb Fill: 49.5 lb	200+ 13.8+	4400 cycles	56 in 142 cm	Stock: 10 yds Custom: 1000 yds				
EPLX 1680	For the ultimate in durabil	ity, the 1680d gives the look and feel of Bali	listic Nylon, in a r	ecycled polyester construc	ction. Great for b	ag bottoms and	other areas of	high abrasion.				
	100% recycled polyester components	C0 DWR, 1680d Ballistic face, 45° Blue CrossPly, 0.5 mil matte film	12.3 oz/yd² 416.9 gsm	Warp: 114.1 lb Fill: 107.3 lb	200+ 13.8+	10200 cycles	56 in 142 cm	Stock: 10 yds Custom: 1000 yds				

	Content	Components	Weight	Tear Strength ASTM D2261	Waterproof psi / bar	Abrasion ASTM 3884	Width	Minimum yards / order	
EPX7ORS	Designed for a small pack	or accessory, or a soft-hand liner. For use a	s a face fabric in a	n ultra light pack, a he	avier bottom pan	el is recommend	led for abrasion	resistance.	
	100% recycled polyester components	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		10 yds 1000 yds
EPX 200	All-around performance at a	about 20% less than nylon laminated fabric.	Good choice for sn	nall to mid-size packs, 4	100/600d is recc	mmended for bo	ottom panels and	high abras	ion areas.
	100% recycled polyester components	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		10 yds 1000 yds
EPX 400	The 400d recycled polyest	er has twice the abrasion resistance compa	red to 420d nylon.	Well suited for pack b	ottoms, or stand-c	alone for highest	overall durabili	ty.	
	100% recycled polyester components	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+	3000 cycles	56 in 142 cm	Stock: Custom:	10 yds 1000 yds
EPX 600	A tight weave and textured	l yarn gives the EPX600 a supple hand with	comparable dural	pility and stitch-holding	, but double the c	ıbrasion resistan	ce of 500d Cor	dura.	
	100% recycled polyester components	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+	2000 cycles	56 in 142 cm	Stock: Custom:	10 yds 1000 yds
ЕР 50 КС	The most popular kite canc	ppy fabric, the EP50 KC works well as super	-light and water re	sistant bag liner, or an	economical tarp.				
	100% woven polyester	50d ripstop with proprietary coating	1.6 oz/yd² 54 gsm	Warp: 10.48 lb Fill: 12.05 lb	50+ 3.4+	500 cycles	60 in 152.4 cm	White:	10 yds
EP 250 LE	World's leading kite board	fabric – firm hand, low stretch, excellent teo	ar strength, four tim	es better abrasion resis	tance than 210d	nylon. Single la	yer, low-cost alte	ernative to l	aminates.
	100% woven polyester	250d ripstop with proprietary coating	3.8 oz/yd² 128 gsm	Warp: 30.05 lb Fill: 28.37 lb	150+ 10.3+	2400 cycles	60 in 152.4 cm	White: Black:	10 yds 10 yds
EP 250 Ti	Ripstop weave of EP250 LE	, with softer Titanium Dioxide UV coating. D	esigned as a sail's	protective layer for ext	ended ocean pas	sages; good for	tarps, high-altitu	de tents, sm	all packs.
	100% woven polyester	250d ripstop with proprietary Titanium Dioxide UV coating	3.8 oz/yd² 128 gsm	Warp: 32.62 lb Fill: 22.19 lb	150+ 10.3+	1200 cycles	60 in 152.4 cm	White:	10 yds
EPL200 Ultra	200d Ultra PE is woven and	d laminated to recycled, waterproof RUV film	n. At just 3.50z/sqy	d, it far exceeds the tea	hnical properties	of any similar w	eight fabric avai	lable on Pla	net Earth!
	200d Ultra PE blended with polyester	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+	3800 cycles	56 in 142 cm	White: Black:	10 yds 10 yds
EPL400 Ultra	400d Ultra PE (similar to D	yneema) is about 20% lighter, with twice the	e abrasion resistanc	e of other 400d UPE fo	abrics. A great all	-purpose high m	odulus pack fab	ric.	
	400d Ultra PE blended with polyester	400d face, 0.5 mil RUV film backing	4.65 oz/yd² 158 gsm	Warp: 114.5 lb Fill: 117.6 lb	200+ 13.8+	7600 cycles	56 in 142 cm	White: Black:	10 yds 10 yds
EPL800 Ultra	Doubling the denier of 400	Dd gives EPLX800 Ultra the strength to go the	e distance in the mo	ost demanding expedition	on packs. Nothing	g else on the ma	rket comes close	!	
	800d Ultra PE blended with polyester	800d face, 0.5 mil RUV film backing	8.1 oz/yd² 274 gsm	Warp: 187.7 lb Fill: 161.1 lb	200+ 13.8+	10500 cycles	56 in 142 cm	White:	10 yds