E SQUARED
By EPT & Erez

Revision Date: 4/4/2019
Approved by: RR
Version: TR-1

PRODUCT SPECIFICATION

PRODUCT ID # : 7087-38120-589

EPT XTRMPLY HPLX- 38 oz

Base Fabric

Weight	11.0 oz/yd2	(373 g/m2)
Yarn	Polyester	

Coating

Polymer	EIA/KEE
Color	Black
Sealing	RF, Hot Air, Wedge
Width	120.0 in

Physical Properties	Units	Test Method	Minimum value	
Thickness (typical)	mils	ASTM D751	45.0 (± 5%)	
	mm		1.14	
Weight (typical)	oz/yd^2	ASTM D751	38	
	g/m^2		1288	
Tear Strength	lbf	ASTM D4533	200 (MD)	200 (TD)
(Trap Tear)	N		890 (MD)	890 (TD)
Breaking Strength	lbs	ASTM D751-A	650 (MD)	650 (TD)
(Grab Tensile)	N		2891 (MD)	2891 (TD)
Elongation (Grab Tensile)	%	ASTM D751-A	20.0%	
Hydrostatic Resistance (Mullen Tester)	psi	ASTM D751-A	800	
	Mpa		5.52	
Abrasion Resistance (H18 wheel, 1000g load)	cycles	ASTM D3884	800	
Adhesion- Ply	lb/in	ASTM D751	15	
	N/25mm		66	
Adhesion- Wedge Weld	lb/2in	ASTM D413	45	
	N/50mm		197	
Low Temperature Bend Test (1/8" Mandrel, 4 hours)	°F	ASTM D2136	-20	
	°C		-29	
Low Temperature Bend Test (1" Mandrel, 4 hours)	°F	ASTM D2136	-30	
	°C		-34	
Blocking Resistance (Max)	Rating	ASTM D751	2	
Puncture Resistance (Screw Tip)	lbs	ASTM D751	110	
	N		489	
Puncture Resistance (Flat Tip)	lbs	ASTM D4833	250	
	N		1112	
Bursting Strength (Ball Tip)	lbf	ASTM D751	750	
	N		3336	
Dimensional Stability (max)	%	ASTM D1204	2.0%	
Accelerated Weathering (QUV)	hours	ASTM G 154	8000	
Vapor Transmission Rate (Cont 192h at 73.4 ±3.6°F)		ASTM D 814-95 (2014)		
Unleaded Gasoline w/Ethanol (≤ 10%)	Oz./(24 h.ft²)		0.268	
Unleaded Gasoline w/o Ethanol	Oz./(24 h.ft²)		0.267	
Diesel fuel	Oz./(24 h.ft²)		0.043	
Water Vapor Transmission	Oz./(24 h.ft²)	ASTM E96 Proc BW	0.146	
Seam Strength	lb/in	ASTM D 751	320	
	N/25mm		1401	
Low Temperature Bend Test (1" Mandrel, 4 hours)	°F	ASTM D2136	-30	
Toughness	lbs	-	14000	
Permeance (Procedure BW)	Perms	ASTM E 96/ E96M	0.003-0.055	
Water Immersion	%	ASTM D 570	1.5	

Product Specifications are minimum values, actual results may be higher