

PPL® 24 Liner Spec Sheet
LOW TEMPERATURE - HYDROCARBON STABLE

DESCRIPTION	HDPE 1500 DENIER, BLACK 12 X 12 COUNT x 2	
FABRICATION & WAREHOUSE	BEND, OREGON	
WEIGHT PER YD2	12 OZ./SQ.YD. (+/-10%)	ASTM D 1910
NOMINAL THICKNESS	24 MILS (+/-10%)	
TENSILE STRENGTH (GRAB METHOD)	WARP 449 LBS. WEFT 405 LBS.	ASTM D 751
ELONGATION TO BREAK	WARP 29% WEFT 34%	
TEAR STRENGTH (TONGUE METHOD)	WARP 74 LBS/IN. WEFT 94 LBS/IN.	ASTM D 751
BURSTING STRENGTH (MULLEN)	818 PSI	ASTM D 3786
HYDROSTATIC RESISTANCE	310 PSI	ASTM D 751A
PUNCTURE RESISTANCE (1" STEEL BALL TIPPED PROBE)	642 PSI	ASTM D 751
MOISTURE VAPOR TRANSMISSION	0.048 GRAMS/ M2/24HRS	ASTM E96 B
PERMEABILILTY	0.00	ASTM D 4491
LOW TEMPERATURE CLOD CRACK	-65F	ASTM D 2136
FLEX/ABRASION	NO DAMAGE TO SCRIM AFTER 2800 CYCLES, BLACK COATING WORN AWAY	ASTM D 3885
HEAT BONDED SEAM STRENGTH	188.166 ppi	ASTMD 6392
BONDED PEEL ADHESION	FTB@Delam	ASTMD 6392
DIMENSIONAL STABILITY@212F/1HR	@EDGE: WARP -9.3 WEFT -7.7 @CENTER: WARP -7.6 WEFT -6.4	ASTM D 1204
ENVIRONMENTAL RESISTANCE		
ACCELERATED WEATHERING, UV	MORE THAN 80% OF STRENGTH RETAINED AFTER 2000 HOURS	ASTM G 53
CARBON BLACK CONTENT	3%	
CARBON BLACK DISPERSION	A-1	
HYDROCARBON RESISTANCE		
CRUDE OIL 30 DAYS @ 73F	WARP 475 LBS. WEFT 395 LBS.	ASTM D 751
SAE 40 WT MOTOR OIL 30DAYS @ 73F	WARP 510 LBS. WEFT 401 LBS.	ASTM D 751
DIESEL 30 DAYS @ 73F	WARP 475 LBS. WEFT 374 LBS.	ASTM D 751
GASOLINE 30 DAYS @ 73F	WARP 440 LBS. WEFT 373 LBS.	ASTM D 751
SALT WATER 30 DAYS @ 73F	WARP 481 LBS. WEFT 397 LBS.	ASTM D 751
SOIL BURIAL 30 DAYS @ 30C 95% REL. HUMIDITY	WARP 540 LBS. WEFT 470 LBS.	ASTM D 751