

10-60mil PVC (POLYVINYL CHLORIDE LINER)



TESTED PROPERTY	TEST METHOD	UNIT ENGLISH (METRIC)	VALUE ENGLISH (METRIC)					
			TE-PVC10	TE-PVC20	TE-PVC30	TE-PVC40	TE-PVC50	TE-PVC60
Thickness	ASTM D 5199	mil (mm)	10 ± 0.5 (0.25 ± .013)	20 ± 1 (0.51 ± 0.03)	30 ± 1.5 (0.76 ± 0.04)	40 ± 2 (1.02 ± 0.05)	50 ± 2.5 (1.27 ± 0.06)	60 ± 3 (1.52 ± 0.08)
Tensile Properties:	ASTM D 882 Min	Strength at Break	24 (4.2)	48 (8.4)	73 (12.8)	97 (17.0)	116 (20.3)	137 (24.0)
Elongation		%	250	360	380	430	430	450
Modulus @ 100%		lbs/in (kN/m)	10 (1.8)	21 (3.7)	32 (5.6)	40 (7.0)	50 (8.8)	60 (10.5)
Tear Strength	ASTM D 1004 min	lbs (N)	2.5 (11)	6 (27)	8 (35)	10 (44)	13 (58)	15 (67)
Dimensional Stability	ASTM D 1204 Max Chg	%	4	4	3	3	3	3
Low Temperature Impact	ASTM D 1790 Pass	°F (°C)	-10 (-23)	-15 (-26)	-20 (-29)	-20 (-29)	-20 (-29)	-20 (-29)
INDEX PROPERTIES								
Specific Gravity	ASTM D 792 Typical	g/cc	1.2	1.2	1.2	1.2	1.2	1.2
Water Extraction % loss (max)	ASTM D 1239 Max Loss	%	0.15	0.15	0.15	0.20	0.20	0.20
Average Plasticizer Molecular Weight	ASTM D 2124		400	400	400	400	400	400
Volatility Loss % loss (max)	ASTM D 1203 Max loss	%	1.5	0.9	0.7	0.5	0.5	0.5
Soil Burial:	G 160 max chg	Break Strength	5	5	5	5	5	5
Elongation		%	20	20	20	20	20	20
Modulus @ 100%		%	20	20	20	20	20	20
Hydrostatic Resistance	ASTM D 751 min	psi (kPa)	42 (290)	68 (470)	100 (690)	120 (830)	150 (1030)	180 (1240)
SEAM STRENGTHS								
Shear Strength	ASTM D 882 min	lbs/in (kN/m)	20 (3.47)	38.4 (6.7)	58.4 (10)	77.6 (14)	96 (17)	116 (20)
Peel Strength	ASTM D 882 min	lbs/in (kN/m)	10 (1.8)	12.5 (2.2)	15 (2.6)	15 (2.6)	15 (2.6)	15 (2.6)

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