



ENGINEERED COATED PRODUCTS REINFORCED POLYPROPYLENE GEOMEMBRANE

Physical Property	Test Method	Property of Unaged Sheet	
		Min. Average Roll Value	Typical Average Roll Value
Thickness, in. (mm) 24 mil 36 mil	ASTM D 5199	0.022 (0.56) 0.032 (0.81)	0.023 (0.58) 0.034 (0.86)
Mass per unit area, lb/ft ² (g/ft ²) (kg/m ²) 24 mil 36 mil	ASTM D 5261	0.10 (49) (0.53) 0.15 (72) (0.79)	0.11 (50) (0.54) 0.16 (75) (0.81)
Breaking strength warp, lbf (kN) (grab tensile at strain rate of 12 in/min) 24 mil 36 mil	ASTM D 751 Grab Method A	213 (0.95) 278 (1.2)	253 (1.1) 325 (1.4)
Elongation at break of fabric, % 24 mil 36 mil	ASTM D 751	22.7 25.3	24.4 26.5
Tearing strength warp, lbf (N) (2 in/min strain rate) 24 mil 36 mil	ASTM D 5884 (large scale "tongue tear")	125 (558) 118 (527)	138 (616) 146 (652)
Low temperature bend, °F (°C)	ASTM D 2136 1/8 in. mandrel 4 hour @ temp.	-40 (-40)	-40 (-40)
Linear Dimensional Change (shrinkage), %	ASTM D 1204 (100°C for 1 hour)	+/- 1.0 max	-0.33
Hydrostatic resistance, lb/in ² or psi (MPa) (Mullen burst) 24 mil 36 mil	ASTM D 751 Procedure A	320 (2.2) 390 (2.7)	328 (2.30) 397 (2.7)
Field seam strength, lb/in (kN/m) Seam tested in peel after weld	ASTM D4437 1 in. wide	40 (7.1)	40 (7.1)
Water vapour permeance, Perms 24 mil 36 mil	ASTM E 96 Proc. BW	0.028 0.017	0.032 0.020
Puncture resistance, lbf (N) 24 mil 36 mil	ASTM D 4833	74 (331) 85 (377)	89 (395) 102 (456)
Resistance to UVA weathering 1600 hours UVA 0.72 W/m ² /nm @ 340nm Cycle 20 hrs light at 75C, 4 hrs dark at 60C HPOIT before, after (percent retained) 24 mil 36 mil	GRI GM 11 GRI GM 13	540, 438 (81%) 644, 512 (80%)	540, 438 (81%) 644, 512 (80%)