

GEOMEMBRANE LINER
ENGINEERING SPECIFICATION GUIDE



**INDUSTRIAL GRADE HYPALON® - OR -
POTABLE WATER GRADE HYPALON®
CHLOROSULFONATED POLYETHYLENE
(CSPE)**

PROPERTIES	TEST METHOD	SPECIFIED VALUES	
Gauge (nominal) mils (mm)	--	36 (0.9)	45 (1.14)
Plies, Reinforcing	--	1	1
Thickness, min Overall	ASTM D 751, Optical Method	34 (0.86)	41 (1.04)
Thickness, min. Over Scrim	ASTM D 751, Optical Method	11 (0.28)	11 (0.28)
Breaking Strength-fabric min lbf (kN)	ASTM D-751, Method A	220 (.89)	250 (1.1)
Low Temperature, Flex, °F (°C)	ASTM D 2136, 1/8 in. mandrel, 4 hrs., Pass	-40 (-40)	-40 (-40)
Puncture Resistance, min, lbs, (kN)	FTMS 101C, Method 2031	190 (0.84)	200 (0.89)
Tear Strength, min. initial lbf, (kN)	ASTM D 5884	70 (0.31)	70 (0.31)
Tear Strength, min After Aging lbf (kN)	ASTM D-5884	35 (0.16)	35 (0.16)
Dimensional Stability, (% chg, max)	ASTM D 1204 (180°F/82°C) 1 hr.)	2%	2%
Hydrostatic Resistance min. psi ((MPa)	ASTM D 751, Method A Procedure 1	350 (2.4)	350 (2.4)
Ply Adhesion, min.lbs/in (kN/m)	ASTM D 413, Machine Method	7 (1.2) 10 (1.75)	7 (1.2) 10 (1.75)
UV Resistance	ASTM G26 Xenon Arc 80°C/4000 hrs	Pass	Pass
Typical Fabricated Seam Properties**			
Bonded Seam Strength, lbf (kN/m)	ASTM D 751	160 (0.71)	200 (0.89)
Peel Adhesion, lbs/in (kN/m)	ASTM D-413 *	10 (1.75)	10 (1.75)

* As modified in Annex A, NSF-54

** Factory bonded seam strength is the responsibility of the fabricator.

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