

**GEOMEMBRANE LINER  
ENGINEERING SPECIFICATION GUIDE**



## 36 mil HYPALON® Black, Reinforced - Polyester 1,000d

Membrane is .036in nominal thickness, scrim-reinforced,  
uncured (thermoset) black Hypalon

PROPERTIES	TEST METHOD	MINIMUM VALUE	AVERAGE VALUE
Thickness 1) Overall (Mils) 2) Min over Scrim	ASTM D-751 Optical method	34 11	36 nom. pass
Tensile Properties (each direction) Breaking Strength (lbs) Fabric Membrane Rupture Elongation at Break (%) Fabric Membrane Rupture	ASTM D-751 Grab Method	200 150 15% 30%	275 225 20% 110%
Breaking strength, minimum	ASTM D-751 Grab Method	225 lbs	275 lbs
Tear Strength, minimum	ASTM D-751 Tongue Tear	90 lbs	105 lbs
Low temperature bend, 1/8 in. mandrel	ASTM D-2136	-40° F pass	Pass
Shore A hardness	ASTM D-2240	85 ± 5	
Hydrostatic resistance, min.	ASTM D-751 Method A	275 psi	405 psi
Ozone resistance *	ASTM D-1149, 3 ppm @ 300% Strain @ 105° F: 72 hrs. And 2500 hrs.	No effect	Pass
Emmaqua concentrated Natural sunlight, 3 million Langleys	ASTM E 838	No visible surface cracking or stiffening	Pass
Dimensional stability	ASTM D-1204 24 hrs @ 129.2° F or 212°F 1 hr	0.1%	0.1%
Puncture resistance, min	FTMS 101C, Method 2031	215 lbs	250 lbs

\* Test run on unsupported material

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PO Box 16465 Denver, CO 80216 303-289-1818 FAX 303-287-3136  
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