



## NEPTAPE® Data Sheet

# Water Blocking Shielding Tapes PERMABLOK™ 1069WB

**Construction:** 0.00035" (9μ) aluminum foil  
0.00092" (23μ) polyester film  
0.00150" (38μ) water swellable coating

**Description:** General purpose water blocking shield tape which typically performs as an overall or individual pair shield in electronic cable. One side has a water swellable coating which prevents movement of water through the length of the cable. The water blocking action allows the cable to pass Bellcore Water Penetration Tests (TR-NWT-000421, Sections 5.4.6.1 and 5.4.6.2) for many cable geometries.

Typical Properties	US Customary	Metric	Test Method
Thickness	0.0029 inches	74 microns	ASTM D374
Yield	72.8 ft <sup>2</sup> /lb. 1.14 lbs/mft @ 1" wide	14.9 m <sup>2</sup> /kg 0.67 kg/km @ 10mm wide	NEPTCO TM-002
Tensile Strength	9,700 psi	67 MPa	Calculated
Break Strength	24 lbs/in width	42 N/10mm width	ASTM D882
Elongation at Break	100%	100%	ASTM D882
Electrical Resistance	42 Ω/mft @ 1" wide	350 Ω/km @ 10mm wide	Supplier Data
Swell Speed (1min)		0.8 mm	Cup & Ram Test
Swell Height (3min)		0.8 mm	Cup & Ram Test
Gel Strength		66 Pa	Slump Test
Time Constant		3.3 sec.	Calculated
Colors	Blue		
Splice Type	#5, max. 6/pad or max. 1/1000' for traverse packages		
Standard Pad Put-ups	Core ID - 3" or 6" Pad OD - 12" or 18"		
Standard Traverse Put-ups	3" x 5.75" x 3.5" - narrow slit material 3" x 11" x 3"		

PLEASE SEE REVERSE SIDE FOR SWELL CURVE INFORMATION

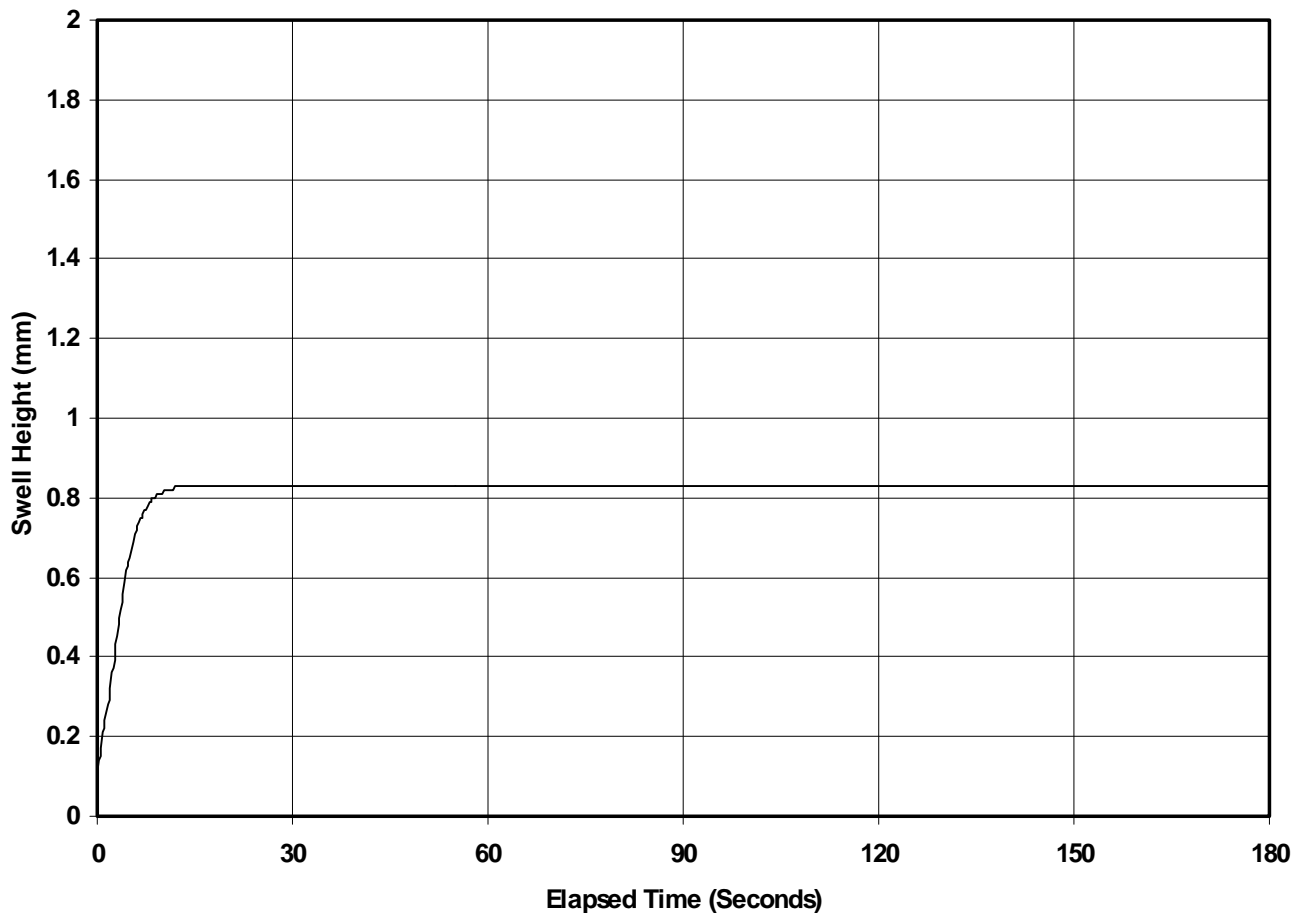
**NEPTCO, Incorporated**  
Box 2323, 30 Hamlet Street  
Pawtucket, RI 02861-0323 USA  
TEL: 401-722-5500  
FAX: 401-722-6378



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**Swell Curve for 1069WB in DI Water**



\*ASTM Test Methods are listed for reference only. Actual testing performed according to modified equipment and conditions. Specific test methods available upon request.

The data presented here is intended for product selection purposes only. Typical properties represent data characteristics of the product, but do not necessarily reflect minimum values during normal testing. Specification data can be provided upon request.

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