



## NEPTAPE® Data Sheet

# Water Blocking Shielding Tapes PERMABLOK™ 169WB3

**Construction:** 0.00240" (61μ) water swellable coating  
0.00092" (23μ) polyester film  
0.00035" (9μ) aluminum foil

**Description:** Heavy coated single sided water blocking laminate, typically used as an outer tape shield in CATV burial cable and coaxial communications drop cables. The water blocking action prevents movement of water through the length of the cable, allowing 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	0.0038 inches	97 microns	ASTM D374
Yield	62.18 ft <sup>2</sup> /lb 1.34 lbs/mft @ 1" wide	12.73 m <sup>2</sup> /kg 0.79 kg/km@ 10mm wide	NEPTCO TM-002
Tensile Strength	8,700 psi	60 MPa	Calculated
Break Strength	33 lbs/inch width	58 N/10mm width	ASTM D882
Elongation at Break	129%	129%	ASTM D882
Electrical Resistance	42 Ω/mft @ 1" wide	350 Ω/km@ 10mm	Supplier Data
Swell Speed (1 min)		2.4 mm	Cup and Ram Test
Swell Height (3 min)		2.4 mm	Cup and Ram Test
Gel Strength (unaged)		66 Pa	Slump Test
Time Constant		14.5 sec.	Calculated
Colors	Blue		
Splice Type	#53, max. 6/pad or max. 1/1000' for traverse packages		
Standard Pad Put-ups	Core ID - 3" or 6" Core OD - 12" or 18"		
Standard Traverse Put-Ups	3" x 5.75" x 3.5" - narrow slit material 3" x 11" x 3"		

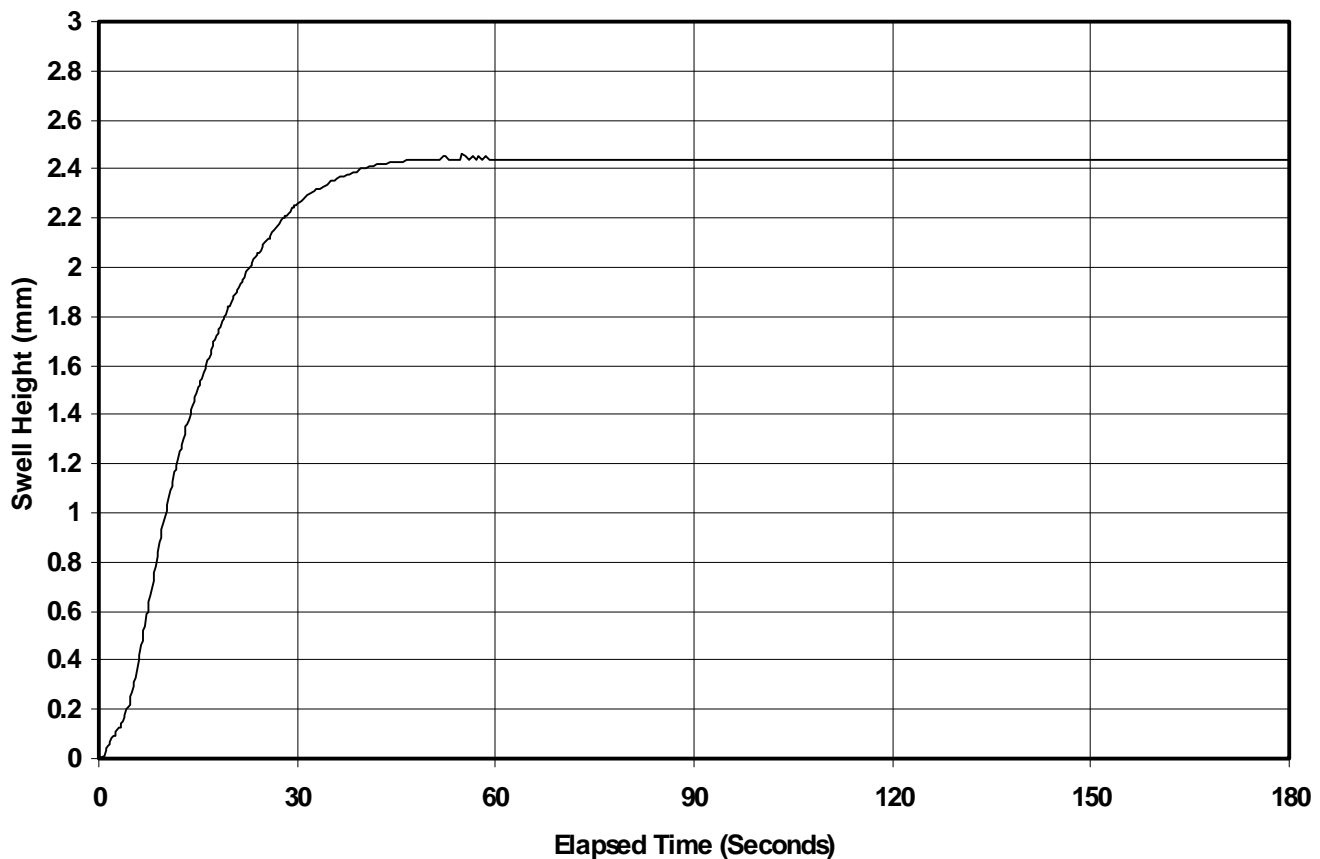
PLEASE SEE REVERSE SIDE FOR SWELL CURVE INFORMATION

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### PERMABLOK™ 169WB3

**Swell Cup Test for 169WB3 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.