

## Technical Datasheet

Article	Test Ink Blue
Standard:	ASTM F3039
Article number:	ASTMF3039BPIP
Pack size:	100 ml, 250 ml, 500 ml, 1 l

### Physical properties

Viscosity	1,10 - 1,30	mPa s
pH-Value	7 - 8	
Density	0,9 - 1,1	g/ml
Dynamic surface tension (50 ms bubble lifetime)	30 - 33	mN/m
Static surface tension (10 s bubble lifetime)	28 - 30	mN/m
HLB (Surfactant)	13,3	
CMC (Surfactant)	52	ppm

- The composition of the test ink complies with the requirements of the ASTM F3039:2023 standard. This is a test method for the detection of leaks in the sealing edges of non-porous packaging and flexible barrier materials.
- With the classification of the surfactant "Triton X-100" as a 'substance of very high concern' in 2021, the ASTM F3039 standard was updated. The new requirements are met by the REACH-compliant surfactant "Tergitol 15-S-9".

### Shelf life

- A preservative is used to ensure a shelf life of two years. This does not affect the functionality according to ASTM F3039.

### Storage

- Store the product in a dry place and out of sunlight.

**Application – Method A**

- Fill the packaging with at least 0.25 ml of liquid per 25 mm of edge sealing of the packaging
- Allow the ink to take effect in accordance with the standard and check the packaging for leaks
- If necessary, add additional liquid and turn the packaging until all edges have been checked

**Application – Method B**

- Lay the test substrate flat on an absorbent surface and apply the test ink
- Spread the test ink on the test substrate and apply a little pressure evenly to the sample
- Remove excess ink and check the absorbent surface and test substrate for leaks in accordance with the standard

Please note: The exact test procedure according to ASTM F3039:2023 is described in the official document.