

**Product Change Notification Number:** 254901

**Date:** 05-DEC-2025

**Title:** Change of filter membrane material for SHT4x-xxxF

**Product Identification:**

PN	Description
3.000.820	SHT40-AD1F-R2, 2.5kpcs
3.000.887	SHT40-BD1F-R2, 2.5kpcs
3.000.885	SHT41-AD1F-R2, 2.5kpcs
3.000.886	SHT45-AD1F-R2, 2.5kpcs
3.000.888	SHT40I-AD1F-R2, 2.5kpcs
3.000.889	SHT40I-HD1F-R2, 2.5kpcs

**Change Severity:**

☒ Major

☐ Minor

**Reason for Change:**

☐ Design

☒ Production

☐ Logistics

☐ Manufacturing Location

☐ Quality/Reliability

☒ Material

**Change Description:**

Transition of the filter membrane material from PTFE (Polytetrafluoroethylene) to PI (Polyimide).

This change allows the implementation of highly scalable manufacturing processes and ensures our capacity to meet growing market demand and enhances the resilience of our supply chain.

The change will be implemented through a rolling transition between the current and the new solution. Upon depletion of current stocks, starting February 2026, new material will be manufactured with the new PI membrane.

**Impact on Form, Fit and Function:**

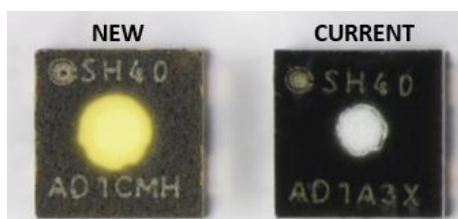
- Function and performance: **Unchanged**. The sensor specification, accuracy and response time remain identical. The PI membrane is IP68 certified and provides equivalent protection against dust and particles.
- Fit: The new PI membrane results in a slightly **lower profile package height (0.06 mm difference)**. Full backward compatibility with existing PCB layouts (see technical drawings at the end of this document).
- Appearance: The sensor will have distinct visual appearance due to the new membrane material (see image comparison below).

**Identification Method to Distinguish Change:**

Reel IDs (20 character-long) can be used to distinguish material produced with the current and new material:

- Reel IDs starting with '25' or a lower number will have the current PTFE membrane
- Reel IDs starting with '26' or a subsequent number will have the new PI membrane.**

The change is distinguishable by eye or with low magnification optical inspection. See image below for a comparison between the new PI membrane (left) and the current PTFE membrane (right):



**Qualification Data:**☐ available☒ will be available in CW09 2026☐ not applicable**Samples:**☐ available☒ will be available in CW04 2026☐ not applicable**Quantifiable Impact on Quality & Reliability:**

No impact on Quality or Reliability.

**Date ready for shipment\*:** February 2026 – anticipated date of new stock**Last Time Buy Date:** n/a - rolling transition**Last Ship Date:** n/a

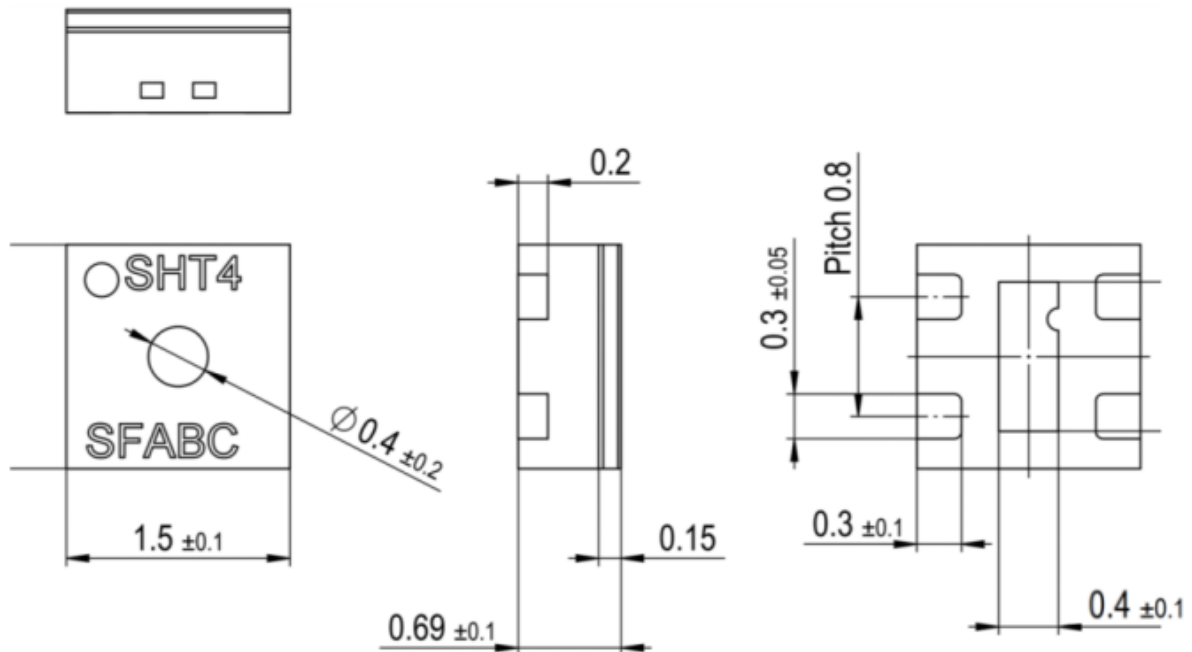
*\* The Date ready for shipment is the forecasted date that a customer may expect to receive changed product. This may be affected by fluctuations in supply and demand.*

**Sensirion Contact:** please contact your local representative

Appendix: Technical drawings comparison

Technical drawings on the relevant datasheets will be updated at the beginning of 2026. Dimensions given in millimeters (mm).

**Current technical drawing (PTFE membrane):**



**Updated technical drawing (PI membrane):** lower height profile highlighted in yellow

