

Certified Reference Materials

Polyester (PET) Film Series for Permeability Calibration

Gas · Water Vapour · Oxygen | GBW(E) certified reference materials

CERTIFIED REFERENCE MATERIALS

GBW(E) certified reference materials



6

Certified PET films

3

GTR · WVTR · OTR

GBW(E)

Certified reference material

25–300 µm

Thickness range

Cross-brand

Any analyzer

What these reference films do

- Certified reference values for gas, water-vapour & oxygen transmission calibration.
- Calibrate, adjust & verify permeability instrument accuracy.
- Cover 25–300 µm — high-permeability to high-barrier.
- GBW(E) certified secondary reference materials.

Who uses them

- Accredited / ISO/IEC 17025 labs needing traceable GTR · WVTR · OTR calibration.
- Pharmaceutical & medical packaging QC teams.
- Food, beverage & flexible-packaging producers.
- Photovoltaic, OLED & flexible-electronics teams.

Six Certified Reference Films

Certificate No.	Property	Thickness	Certified Reference Value (k = 2)
GBW(E) 130541	Gas Permeability (GTR)	125 µm	$(11.2 \pm 2.1) \text{ cm}^3/(\text{m}^2 \cdot 24\text{h} \cdot 0.1 \text{ MPa})$
GBW(E) 130542	Gas Permeability (GTR)	300 µm	$(4.7 \pm 1.2) \text{ cm}^3/(\text{m}^2 \cdot 24\text{h} \cdot 0.1 \text{ MPa})$
GBW(E) 130543	Water Vapour Permeability (WVT)	125 µm	$(4.4 \pm 0.8) \text{ g}/(\text{m}^2 \cdot 24\text{h})$
GBW(E) 130544	Water Vapour Permeability (WVT)	300 µm	$(1.8 \pm 0.3) \text{ g}/(\text{m}^2 \cdot 24\text{h})$
GBW(E) 130497	Oxygen Permeability (OTR)	25 µm	$(62.8 \pm 2.9) \text{ cm}^3/(\text{m}^2 \cdot 24\text{h})$
GBW(E) 130498	Oxygen Permeability (OTR)	125 µm	$(12.3 \pm 0.9) \text{ cm}^3/(\text{m}^2 \cdot 24\text{h})$

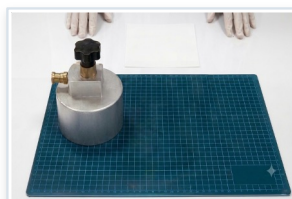
Material: polyester (PET) · Usable across instrument brands · GBW(E) certified reference materials with traceability documentation included.

GBW(E) certificates use WVT (water-vapour transmission); WVTR (rate) is the equivalent industry term.

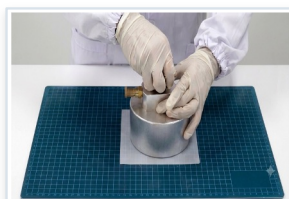
Standards & Compliance

Certified reference values established under GBW(E) reference-material certification. Suitable for calibrating instruments operating to ISO 15105-2 · ASTM D3985 · ISO 15105-1 · ASTM D1434 · ISO 2528.

Reference film in use



1 · Prepare film & cutter



2 · Cut the sample



3 · Obtain clean specimen



4 · Load & run the test

Request a quote

Individual films or full GTR · WVT · OTR sets available

GBTest Digital Technology (S) Pte Ltd · Singapore & ASEAN

enquiry@gbtest.sg

+65 9854 6883