



OUTGASSING TEST FOR PTM7900

November 28, 2023

Honeywell

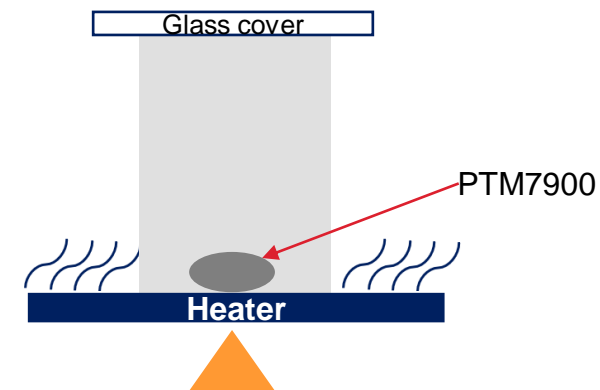
TEST DESCRIPTION FOR OUTGASSING

Test description

- Tools for test
 - ✓ Aluminum container
 - size: 55 x 55 x 85mm
 - thickness: 5 mm
 - ✓ Glass plate
 - size: 80 x 80 x 5 mm
 - ✓ Heater: Fisher Scientific
 - ✓ Thermal couple: Omega RDXL8
- Test items: weight loss
- Sample for test: PTM7900
- Baking time: 48 hrs
- Test temperature
 - 120°C
 - 160°C

Test procedure for compression

- a) Clean an aluminum container and bake it at 125°C oven for 1 hr
- b) Cool the container down to room temperature, weigh it and record
- c) Put PTM7900 in the aluminum container, weigh it and record
- d) Container is covered with a glass plate, then laid on the heater for 48 hrs.
- e) Cool the container down, weigh it and record.
- f) Check the status of glass cover to confirm whether anything left on it



TEST RESULT FOR OUTGASSING

PTM7900 outgassing @120°C

PTM7900/120C	Before baking (g)	After 48 hrs baking (g)	Weight loss (g)	Comment
Empty Al container	274.273	/	/	/
Al container+PTM7900	314.617	314.614	/	/
PTM7900	40.344	40.341	-0.003	Weight loss ratio: -0.007%
				- No oil was observed on the glass.
Glass cover	74.743	74.745	0.002	- Substance was found when using black plastic as cover

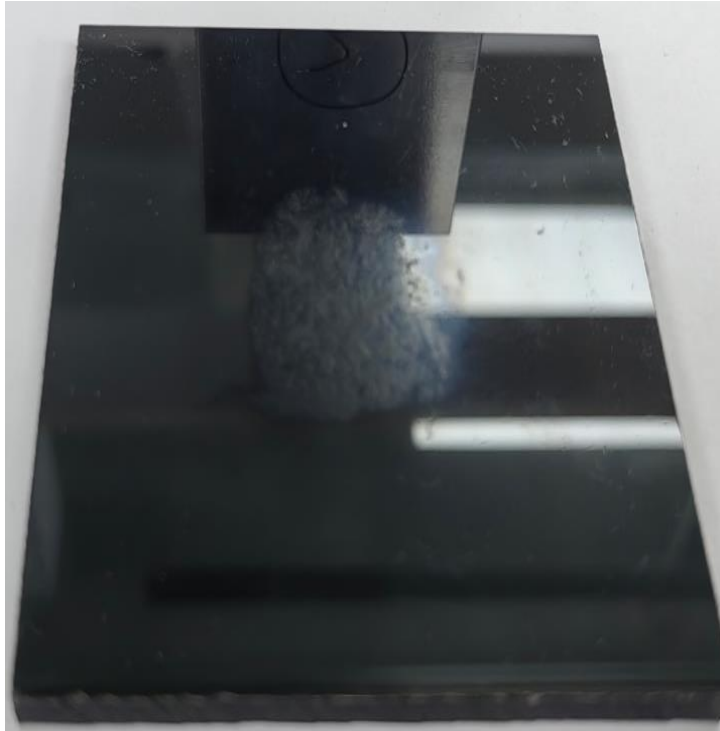
PTM7900 outgassing @160°C

PTM7900/160C	Before baking (g)	After 48 hrs baking (g)	Weight loss (g)	Comment
Empty Al container	274.67	/	/	/
Al container +PTM7900	316.639	316.63	/	/
PTM7000	41.969	41.96	-0.009	Weight loss ratio 0.021%
				- No oil was observed on the glass.
Glass cover	74.96	74.96	0	- Substance was found when using black plastic as cover

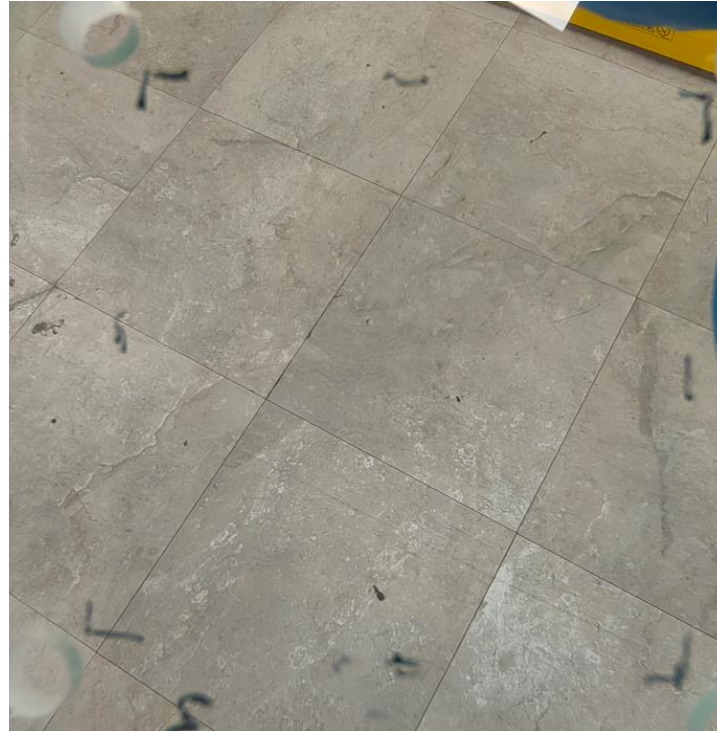


Tools for testing

FIGURES OF TEST RESULT FOR OUTGASSING



Substance was found on black surface



No oil was observed on glass

Summary

- When using glass as cover, no obvious contamination was observed.
- When using black plastic as cover, it could be observed from a specific view that substance was left on the surface of cover.

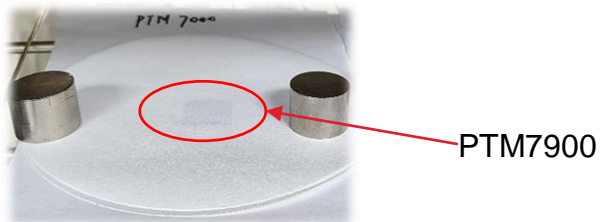
TEST FOR OIL BLEEDING

Test description

- Baking time: 72hrs
- Size of PTM7900: 20 x 20 x 0.25 mm
- Tools for test
 - ✓ Filter paper
 - ✓ Oven

Test procedure

- Put PTM7900 on top of filter paper
- PTM7900 was covered with another piece of filter paper to make a specimen (as figure below)
- Put the specimen into oven (125°C)
- Baked it for 72 hrs
- Take the specimen out and check the size of oil ring



Test result

- Diameter of oil ring: 3.5mm

