

# Visit Report

To : YUHO  
Cc : FNM, CAAG, GUOS, WNGJ, LINR, XUEA, LIAW,  
FUJT, LAIC, GUOC, ZHAI  
From : ZHVI

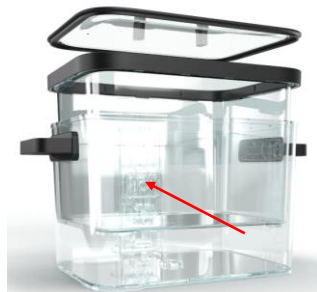
Date of visit: 06 May 2023  
Date of report: 15 May 2023

## Hongrita

Participants : Hongrita : Mr. Wang (*Project Engineer*)  
EMS : H. Yu, V. Zhu  
OEM : Typhur  
Sales responsible : YUHO  
Distributor : No  
Location : Zhongshan, Guangdong  
Application : Sous Vide Cooking Machine, Water Tank Filter  
Segment Code : 421  
Project number : Not yet, feasibility ongoing  
Material : Grilamid TR 55 nat.  
USP : Good stress crack resistance at 90°C/300hours water boiling  
Potential : 10 t/a  
SOP : Q3.2023



Filter



Water Tank



Sous Vide Cooking Machine

### 1. Target of visit

- Trial with TR 55 to resolve crack issue of PC 2856.

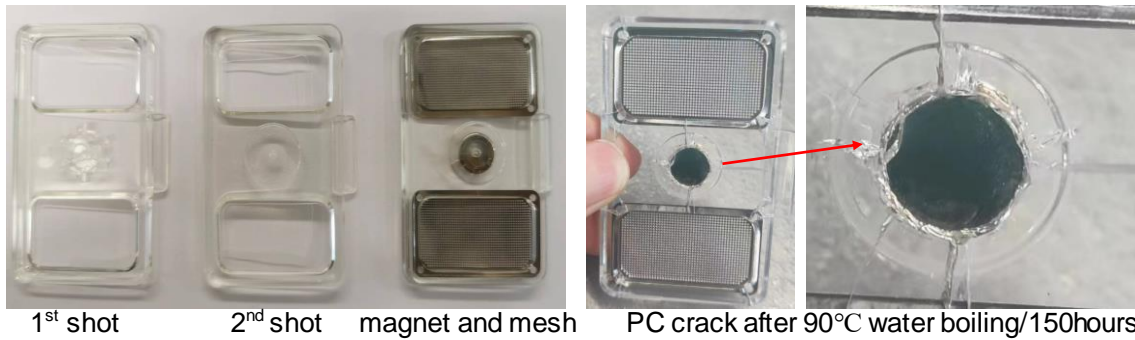
### 2. Summary

- Grilamid TR 55 was promoted as problem solving solution of PC 2856 crack issue after 90°C/150 hours water boiling (≥300hours required).
- Sampling of 15 parts finished for boiling test. Obtain test result by 30<sup>th</sup> May.

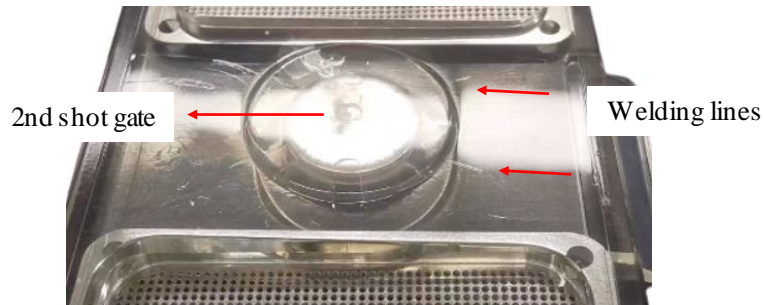
### 3. Details

#### Customer & Project information

- Typhur is developing new sous vide station cooking machine for home kitchen. ([www.typhur.com](http://www.typhur.com))
- Part is filter in water tank, magnet and steel filter mesh insert molding.
- Customer claimed crack issue occurred after 90°C/150 hours water boiling with existing PC 2856. EMS solution was requested.



- Crack at welding lines were found around gate and part thickness transition area in 2<sup>nd</sup> shot. Welding lines cannot be avoided with current gate and part design which customer stayed with.



- Stress of magnet inserts could be second reason of crack issue.
- Grilamid TR 55 was promoted with better stress crack resistance.
- Pre-heating of magnet and steel mesh to 90°C was implemented and sampling of 15 parts finished with good cosmetic aspect. Customer will conduct water boiling test.

#### Part & Test Requirement

- Water boiling, 90°C/≥300 hours without crack
- Transparency, >85%
- Good cosmetic aspect

#### 4. Actions

No.	Action	Resp.	Due date
1	Obtain test result and make judgement	ZHVI	30 May 2023

Best Regards  
Vincent Zhu