

Proposal of “Test at Gunze, Imagine the Future”

2021.10

Gunze Limited / Gunze Plastics & Engineering of Vietnam Co., LTD.



Purposes and Goals

- ▶ To compare the performance of HIT and your current film
Gunze will test the shrinkage of HIT and your current film (PET, PVC etc...) and propose the better solutions to you.
- ▶ To investigate the cause of your current problems
Gunze will test shrinking with your bottles and find the root cause.

Major issues	Poor shrink	Poor shrink of the neck / shoulder part	Wrinkles	Strains	Color distortion	Smiling / Frowning
Possible cause	Insufficient heating	Less TD shrinkage	Sudden shrink	Sudden shrink	Sudden shrink	High MD shrinkage

Requests

- ▶ Please prepare and send the following samples to Gunze Limited.
 - 10 bottles
 - 10 (or more) current film
 - Some defected products using current film (if possible)
- ▶ Please inform us the format of the current film in advance.
 - (e.g.) printed/unprinted, film/sleeve etc.
- ▶ Samples of HIT are to be prepared by Gunze.
- ▶ Mailing address is listed on the final page of this presentation.
- ▶ Shipping fee of the samples are to be negotiated.

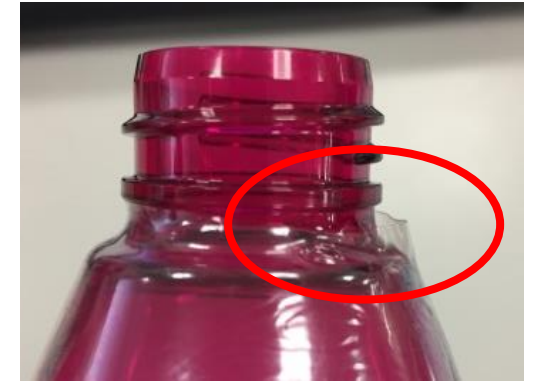


Case Studies

- ▶ Company A (Personal care)

Gunze compared the shrinkage of HIT and general PET film.

⇒ **HIT shrinks better** with the company A's bottle while poor shrink and excessive "smiling" were found on PET.



Ref: Poor shrink on PET film

- ▶ Company B (Home care)

Company B had difficulty in sealing HIT.

⇒ Gunze investigated the cause and **proposed the better sealing condition.**

- ▶ Company C (Beverage)

Gunze **proposed the better shrink conditions of HIT** different from PET.

Please do not hesitate to contact us for testing Hybrid shrink film:

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