

~ The current high quality of appearance can be maintained !
 Realization of customer's sustainable ideas inside the product. ~

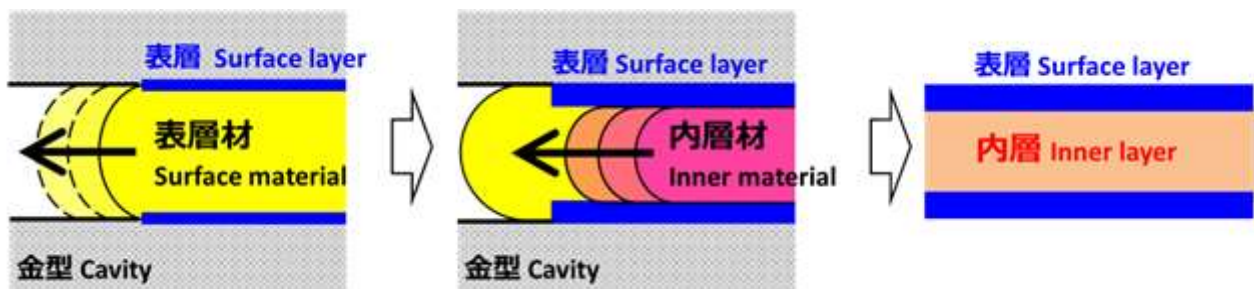
“Direct-Sandwich” forming

This time, we would like to introduce "Direct-Sandwich" forming which was exhibited at IPF Japan 2023 (International Plastics Fair) held at Makuhari Messe from November 28, 2023 thru December 2, 2023.

➤ What is sandwich forming?

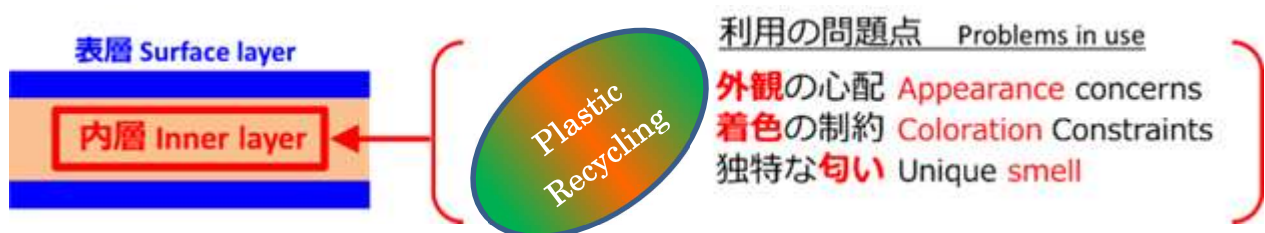
This is a two-material molding method in which different materials are used to form the surface and inner layer materials.

● Sandwich forming process

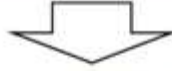


● Sandwich Forming Application

The use of crushed or recycled materials as an inner layer material can help solve issues related to the use of recycled materials, which has been attracting attention as an environmental problem, and contribute to increasing the utilization rate.



➤ Conventional sandwich forming



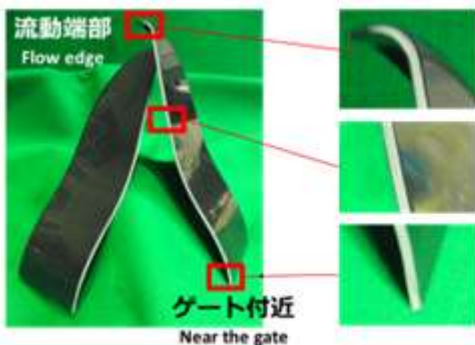
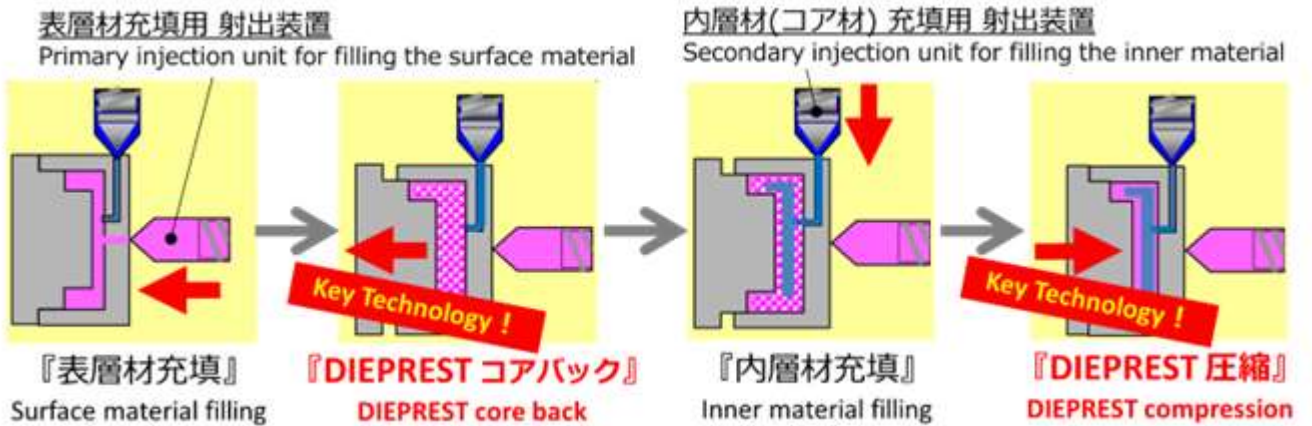
《薄肉製品を始めとする幅広い製品に高いリサイクル利用率を実現》

High recycling utilization rate for a wide range of products, including thin-wall products

Direct-Sandwich



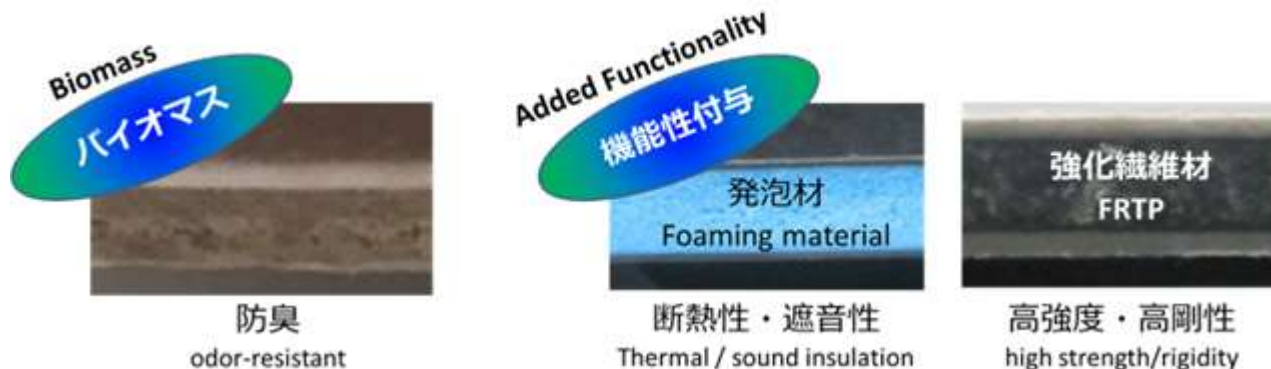
➤ UBE's "Direct-Sandwich" forming process



- 内層材充填率 Inner material filling rate
 - Product thickness
 - 「3.0mm」 : 61%
 - 「3.8mm」 : 70%
- 製品広範囲に均一充填
Uniform filling over a wide area
- 面張り良好 (DIEPREST圧縮効果)
Good surface tension (DIEPREST compression effect)

➤ **Other application examples**

For the inner layer material, the use of functional materials, not limited to the use of recycled materials, can be used to create high value-added molded products.



➤ **"Putit Injection"**

UBE's "Putit Injection," a compact motorized injection system for two-material molding, can be attached to general-purpose injection molding machines to enable sandwich forming.



シリーズ Series		Putit-50	Putit-100	Putit-150	Putit-250
理論射出容量 Injection volume	[cm ³]	55	110	165	276
機械寸法 Dimension (Length×Wide×Height)	[m]	0.9×0.6 ×0.4	1.0×0.6 ×0.4	1.2×0.6 ×0.4	1.5×0.7 ×0.5
機械重量 M/C weight	[kg]	200	250	300	440
設備電源容量 Power capacity	[kVA]	10	10	10	20



お問い合わせ

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UBE Machinery Corporation Website address: <https://www.ubemachinery.co.jp/english/>