

Evaluation and Design of Reusable Takeaway Containers Based on the AHP–FCE Model

This supplementary information includes includes the normalized results of the evaluation statistics for Scheme (B) and Scheme (C).

Table S1. Normalized results of evaluation statistics for Scheme (B).

First-level indicators	Secondary indicators	excellent	good	general	slightly poor	very poor
Material layer (B_1)	Safety/nontoxicity (B_{11})	0.71	0.15	0.07	0.06	0.01
	Service life (B_{12})	0.58	0.21	0.1	0.07	0.04
	Cost price (B_{13})	0.58	0.22	0.09	0.07	0.04
	Durable properties (B_{14})	0.65	0.17	0.1	0.05	0.03
	Weight factor (B_{15})	0.57	0.22	0.09	0.05	0.07
Appearance layer(B_2)	Information recognition (B_{21})	0.63	0.25	0.07	0.04	0.01
	Internal visibility (B_{22})	0.52	0.27	0.12	0.06	0.03
	Operation difficulty (B_{23})	0.49	0.32	0.1	0.06	0.03
	Specification classification (B_{24})	0.54	0.24	0.15	0.05	0.02
Structural layer(B_3)	Sealing function (B_{31})	0.65	0.17	0.11	0.06	0.01
	Thermal insulation function (B_{32})	0.53	0.25	0.13	0.06	0.03
	Layer function (B_{33})	0.59	0.19	0.11	0.07	0.04
	Flexible layout (B_{34})	0.57	0.21	0.14	0.06	0.02
	Cleaning difficulty (B_{35})	0.54	0.25	0.14	0.05	0.02
	Stable shockproof (B_{36})	0.54	0.25	0.09	0.08	0.04
	Space occupancy (B_{37})	0.56	0.20	0.14	0.07	0.03
Information layer(B_4)	Built-in chip (B_{41})	0.75	0.13	0.06	0.04	0.02
	Intelligent identification (B_{42})	0.65	0.2	0.06	0.06	0.03
	Automatic synchronization (B_{43})	0.64	0.19	0.08	0.04	0.05

Table S2. Normalized results of evaluation statistics for Scheme (C).

First-level indicators	Secondary indicators	excellent	good	general	slightly poor	very poor
Material layer (B_1)	Safety/nontoxicity (B_{11})	0.46	0.41	0.07	0.05	0.01
	Service life (B_{12})	0.45	0.32	0.12	0.06	0.05
	Cost price (B_{13})	0.44	0.34	0.14	0.04	0.04
	Durable properties (B_{14})	0.41	0.38	0.12	0.05	0.04
	Weight factor (B_{15})	0.44	0.34	0.13	0.06	0.03
Appearance layer(B_2)	Information recognition (B_{21})	0.52	0.33	0.1	0.03	0.02
	Internal visibility (B_{22})	0.5	0.29	0.12	0.06	0.03
	Operation difficulty (B_{23})	0.45	0.32	0.14	0.05	0.04
	Specification classification (B_{24})	0.48	0.33	0.11	0.06	0.02
Structural layer(B_3)	Sealing function (B_{31})	0.51	0.37	0.06	0.04	0.02
	Thermal insulation function (B_{32})	0.46	0.37	0.08	0.05	0.04
	Layer function (B_{33})	0.49	0.3	0.13	0.04	0.04
	Flexible layout (B_{34})	0.45	0.34	0.11	0.05	0.05
	Cleaning difficulty (B_{35})	0.5	0.32	0.11	0.04	0.03
	Stable shockproof (B_{36})	0.42	0.38	0.11	0.04	0.05
	Space occupancy (B_{37})	0.48	0.35	0.09	0.05	0.03
Information layer(B_4)	Built-in chip (B_{41})	0.52	0.35	0.06	0.04	0.03
	Intelligent identification (B_{42})	0.52	0.27	0.09	0.07	0.05
	Automatic synchronization (B_{43})	0.48	0.3	0.11	0.07	0.04