

Guideline for packaging materials (2022 Version)

Materials	Recommendation	Note
Paper, tree, woody biomass	◎	FSC-certified materials are recommended from the perspective of biodiversity. Recycled paper, scrap wood and wood waste scheduled for disposal are also recommended.
Palm, corn, sugarcane, soybean, rice	○	Food should be consumed as food, not produced exclusively for the use of the material; only use of waste food such as expired, pressed dregs, waste rice, etc. is allowed. In addition, the material should be sustainable in terms of biodiversity, environmental impact, and human rights, and certified by an ISEAL Alliance member, such as RSPO for palm, Bonsucro for sugarcane, and RTRS for soybeans. See also below for more information on biomass.
Reed, sedge, bamboo	△	Confirmation of a logging permit from the local government or other authority indicating that the logging is not illegal is required. In addition, the use of riverside reeds and grass is not allowed, as they are beneficial to the preservation of biodiversity in freshwater systems. Bamboo is susceptible to the growth of highly poisonous red mold and should not be used for tableware without mold treatment from a hygienic standpoint. See also below for more information on biomass.
Silicone, high-density polyethylene (HDPE)	◎	Reuse is recommended as it improves strength. However, for products to be used on board aircraft, sufficient consideration should be given to weight reduction.
Recycled materials	◎	Recycled materials such as recycled paper, recycled cardboard, recycled plastic, recycled aluminum, and recycled glass are strongly recommended because they emit less CO2 when recycled than newly manufactured materials. Since the appearance of the product does not change, a note such as "100% recycled material" should be included on the product.
Biomass 100% materials	◎	Transparent A-PET is recommended because it emits less CO2 when burned and is easily recycled. Aluminum emits less CO2 when recycled than steel and is as strong as steel, so lighter aluminum cans are recommended, especially for in-flight supplies. In addition, beverage bottles for wine, liquor, and other beverages have established standards (size, color, etc.) for recycling and re-filling, and designing bottles that do not meet these standards should be avoided.

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Easily recyclable material (A-PET/aluminum/ standard drink bottles)	◎	If national/regional recycling infrastructure is not in place and the product is burned, 100% biomass is selected from the perspective of environmental impact. See above for sustainability.
Compost degradability materials	×	Even if there is official proof of compost degradability, it is not possible because there is almost no infrastructure for compost degradation, including overseas, so actually it cannot be degraded, leading to misperception by customers. Degradation of waste food in composting facilities depends on machine performance, so confirmation is required.
Oxidation degradability materials	×	Not allowed because it does not decompose and pollutes the ocean. Use is prohibited in Europe and the United States.