

Specification for Synthetic-Resin Apparatus, Containers, or Packaging

(Notification No. 370, issued by the Ministry of Health and Welfare of Japan, dated in 1959)

Final revision by Notification No.380 (2020)

No.	Type of Synthetic resin	Representative Price (JPY) 1 condition of use and 4 solvents for Evaporation residue.
1	Mainly composed of phenol resin (PF), melamine resin (MF) or urea resin (UF)	46000
2	Mainly made of formaldehyde (except PF, MF, UF)	44500
3	Mainly composed of polyvinyl chloride (PVC)	92500
4	Mainly composed of polyethylene (PE) or polypropylene (PP)	38500
5	Mainly composed of polystyrene (PS)	49500
6	Mainly composed of polyvinylidene chloride (PVDC)	64500
7	Mainly composed of polyethylene terephthalate (PET)	53500
8	Mainly composed of polymethyl methacrylate (PMMA)	49500
9	Mainly composed of polyamide (PA)	50500
10	Mainly composed of polymethyl pentene (PMP)	38500
11	Mainly composed of polycarbonate (PC)	124500
12	Mainly composed of polyvinyl alcohol (PVA)	38500
13	Mainly composed of polylactic acid (PLA)	53500
14	Mainly composed of polyethylene naphthalate (PEN)	46000
15	Synthetic resin in general (general standards)	18000

Before order, please confirm;**The test parameters** are determined by,

- Kind of Resin.** What is the main material of Apparatus or Container-Packages ?
- Is it single layered, multi layered or laminated?

Elution conditions are determined by

- Condition of use.** How high temperature is the material used?
 $\leq 100^{\circ}\text{C}$ and/or $> 100^{\circ}\text{C}$
- Is there a specific side which contact with food?
- Is there any printing or coating on its surface?

Solvents for Evaporation residue are determined by

- What kind of foods are in contact with the apparatus or Packages?
 - 1) Fats, oils and fatty foods (Heptane)
 - 2) Alcoholic beverages (20% ethanol)
 - 3) Other foods
 - 3)-1 pH over 5 (water)
 - 3)-2 pH 5 or less (4% Acetic Acid)

NOTES: Test samples of laminated products for material testing.

A laminated product is tested on the food contact side of the product.

In order to perform material testing, a single material of the food contact side is required as a form of pellets or films.

When a single material is not provided, peeling off the resin from the laminated product will be available with an extra charge (about JPY4000).

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1. Mainly composed of phenol resin (PF), melamine resin (MF) or urea resin (UF)					
Test Item	Standard	Elution condition		Unit Price (JPY)	
		Condition of use $\leq 100^{\circ}\text{C}$	Condition of use $> 100^{\circ}\text{C}$		
Material Test	Cadmium and Lead	Not exceed the absorbance of the standard solution (100 $\mu\text{g/g}$ or less)		11000	
Elution Test	Heavy metals	Not darker in color than the control solution (1 $\mu\text{g/mL}$ or less)		3000	
	Phenol	Not exceed the absorbance of the standard solution (5 $\mu\text{g/mL}$ or less)		5500	
	Formaldehyde	Not darker in color than the contrast solution (about 4 $\mu\text{g/mL}$ or less)		6000	
	Evaporation residue	Fats, oils and fatty foods	30 $\mu\text{g/mL}$ or less	Heptane 25 $^{\circ}\text{C} \times 1\text{hour}$	7000
		Alcoholic beverages		20 % ethanol 60 $^{\circ}\text{C} \times 30\text{min}$	4500
pH over 5		Water 60 $^{\circ}\text{C} \times 30\text{min}$		Water 95 $^{\circ}\text{C} \times 30\text{min}$	4500
pH 5 or less		4% acetic acid 60 $^{\circ}\text{C} \times 30\text{min}$		4% acetic acid 95 $^{\circ}\text{C} \times 30\text{min}$	4500

2. Mainly made of formaldehyde (except PF, MF, UF)					
Test Item	Standard	Elution condition		Unit Price (JPY)	
		Condition of use $\leq 100^{\circ}\text{C}$	Condition of use $> 100^{\circ}\text{C}$		
Material Test	Cadmium and Lead	Not exceed the absorbance of the standard solution (100 $\mu\text{g/g}$ or less)		11000	
Elution Test	Heavy metals	Not darker in color than the control solution (1 $\mu\text{g/mL}$ or less)		3000	
	Quantity of KMnO_4 consumed	10 $\mu\text{g/mL}$ or less		4000	
	Formaldehyde	Not darker in color than the contrast solution (about 4 $\mu\text{g/mL}$ or less)		6000	
	Evaporation residue	Fats, oils and fatty foods	30 $\mu\text{g/mL}$ or less	Heptane 25 $^{\circ}\text{C} \times 1\text{hour}$	7000
		Alcoholic beverages		20 % ethanol 60 $^{\circ}\text{C} \times 30\text{min}$	4500
pH over 5		Water 60 $^{\circ}\text{C} \times 30\text{min}$		Water 95 $^{\circ}\text{C} \times 30\text{min}$	4500
pH 5 or less		4% acetic acid 60 $^{\circ}\text{C} \times 30\text{min}$		4% acetic acid 95 $^{\circ}\text{C} \times 30\text{min}$	4500

3. Mainly composed of polyvinyl chloride (PVC)					
Test Item	Standard	Elution condition		Unit Price (JPY)	
		Condition of use $\leq 100^{\circ}\text{C}$	Condition of use $> 100^{\circ}\text{C}$		
Material Test	Cadmium and Lead	Not exceed the absorbance of the standard solution (100 $\mu\text{g/g}$ or less)		11000	
	Dibutyl tin compound	Not larger than the peak area of the standard solution (50 $\mu\text{g/g}$ or less)		20000	
	Cresyl phosphate	Not larger than the peak area of the standard solution (1000 $\mu\text{g/g}$ or less)		17000	
	Vinyl chloride	Not larger than the peak area of the standard solution (1 $\mu\text{g/g}$ or less)		17000	
Elution Test	Heavy metals	Not darker in color than the control solution (1 $\mu\text{g/mL}$ or less)		3000	
	Quantity of KMnO_4 consumed	10 $\mu\text{g/mL}$ or less		4000	
	Evaporation residue	Fats, oils and fatty foods	150 $\mu\text{g/mL}$ or less	Heptane 25 $^{\circ}\text{C} \times 1\text{hour}$	7000
		Alcoholic beverages		20 % ethanol 60 $^{\circ}\text{C} \times 30\text{min}$	4500
		pH over 5		Water 60 $^{\circ}\text{C} \times 30\text{min}$	Water 95 $^{\circ}\text{C} \times 30\text{min}$
pH 5 or less		4% acetic acid 60 $^{\circ}\text{C} \times 30\text{min}$		4% acetic acid 95 $^{\circ}\text{C} \times 30\text{min}$	4500

4. Mainly composed of polyethylene (PE) or polypropylene (PP)

Test Item	Standard	Elution condition		Unit Price (JPY)	
		Condition of use $\leq 100^{\circ}\text{C}$	Condition of use $> 100^{\circ}\text{C}$		
Material Test	Cadmium and Lead	Not exceed the absorbance of the standard solution (100 $\mu\text{g/g}$ or less)		11000	
Elution Test	Heavy metals	Not darker in color than the control solution (1 $\mu\text{g/mL}$ or less)		3000	
	Quantity of KMnO_4 consumed	10 $\mu\text{g/mL}$ or less		4000	
	Evaporation residue	Fats, oils and fatty foods	When Condition for use is $> 100^{\circ}\text{C}$: 30 $\mu\text{g/mL}$ or less When Condition for use is $\leq 100^{\circ}\text{C}$: 150 $\mu\text{g/mL}$ or less		7000
		Alcoholic beverages	Heptane 25 $^{\circ}\text{C} \times 1$ hour		4500
		pH over 5	20 % ethanol 60 $^{\circ}\text{C} \times 30$ min		4500
pH 5 or less		Water 60 $^{\circ}\text{C} \times 30$ min Water 95 $^{\circ}\text{C} \times 30$ min		4500	
		4% acetic acid 60 $^{\circ}\text{C} \times 30$ min 4% acetic acid 95 $^{\circ}\text{C} \times 30$ min		4500	

5. Mainly composed of polystyrene (PS)

Test Item	Standard	Elution condition		Unit Price (JPY)	
		Condition of use $\leq 100^{\circ}\text{C}$	Condition of use $> 100^{\circ}\text{C}$		
Material Test	Cadmium and Lead	Not exceed the absorbance of the standard solution (100 $\mu\text{g/g}$ or less)		11000	
	Volatile substances (Styrene, Toluene, Ethyl benzene, Isopropyl benzene, Propylbenzene)	5 mg/g or less But in case of polystyrene foam (limited to that using hot water), this shall be not more than 2 mg/g and styrene and ethyl benzene shall be not more than 1 mg/g, respectively.		11000	
Elution Test	Heavy metals	Not darker in color than the control solution (1 $\mu\text{g/mL}$ or less)		3000	
	Quantity of KMnO_4 consumed	10 $\mu\text{g/mL}$ or less		4000	
	Evaporation residue	Fats, oils and fatty foods	240 $\mu\text{g/mL}$ or less		7000
		Alcoholic beverages	Heptane 25 $^{\circ}\text{C} \times 1$ hour		4500
		pH over 5	20 % ethanol 60 $^{\circ}\text{C} \times 30$ min		4500
pH 5 or less		Water 60 $^{\circ}\text{C} \times 30$ min Water 95 $^{\circ}\text{C} \times 30$ min		4500	
		4% acetic acid 60 $^{\circ}\text{C} \times 30$ min 4% acetic acid 95 $^{\circ}\text{C} \times 30$ min		4500	

6. Mainly composed of polyvinylidene chloride (PVDC)

Test Item	Standard	Elution condition		Unit Price (JPY)	
		Condition of use $\leq 100^{\circ}\text{C}$	Condition of use $> 100^{\circ}\text{C}$		
Material Test	Cadmium and Lead	Not exceed the absorbance of the standard solution (100 $\mu\text{g/g}$ or less)		11000	
	Barium	Not exceed the absorbance of the standard solution (100 $\mu\text{g/g}$ or less)		9000	
	Vinylidene chloride	Not larger than the peak area of the standard solution (6 $\mu\text{g/g}$ or less)		17000	
Elution Test	Heavy metals	Not darker in color than the control solution (1 $\mu\text{g/mL}$ or less)		3000	
	Quantity of KMnO_4 consumed	10 $\mu\text{g/mL}$ or less		4000	
	Evaporation residue	Fats, oils and fatty foods	Heptane 25 $^{\circ}\text{C} \times 1$ hour		7000
		Alcoholic beverages	20 % ethanol 60 $^{\circ}\text{C} \times 30$ min		4500
		pH over 5	Water 60 $^{\circ}\text{C} \times 30$ min Water 95 $^{\circ}\text{C} \times 30$ min		4500
pH 5 or less		4% acetic acid 60 $^{\circ}\text{C} \times 30$ min 4% acetic acid 95 $^{\circ}\text{C} \times 30$ min		4500	

7. Mainly composed of polyethylene terephthalate (PET)						
Test Item		Standard		Elution condition		Unit Price (JPY)
				Condition of use $\leq 100^{\circ}\text{C}$	Condition of use $> 100^{\circ}\text{C}$	
Material Test	Cadmium and Lead	Not exceed the absorbance of the standard solution (100 $\mu\text{g/g}$ or less)				11000
Elution Test	Heavy metals	Not darker in color than the control solution (1 $\mu\text{g/mL}$ or less)		4% acetic acid 60°C × 30min	4% acetic acid 95°C × 30min	3000
	Quantity of KMnO_4 consumed	10 $\mu\text{g/mL}$ or less		Water 60°C × 30min	Water 95°C × 30min	4000
	Antimony	Not exceed the absorbance of the standard solution (0.05 $\mu\text{g/mL}$ or less)		4% acetic acid 60°C × 30min	4% acetic acid 95°C × 30min	7500
	Germanium	Not exceed the absorbance of the standard solution (0.1 $\mu\text{g/mL}$ or less)				7500
	Evaporation residue	Fats, oils and fatty foods	30 $\mu\text{g/mL}$ or less	Heptane 25°C × 1hour		7000
Alcoholic beverages		20 % ethanol 60°C × 30min		4500		
pH over 5		Water 60°C × 30min		Water 95°C × 30min	4500	
pH 5 or less		4% acetic acid 60°C × 30min		4% acetic acid 95°C × 30min	4500	

8. Mainly composed of polymethyl methacrylate (PMMA)						
Test Item		Standard		Elution condition		Unit Price (JPY)
				Condition of use $\leq 100^{\circ}\text{C}$	Condition of use $> 100^{\circ}\text{C}$	
Material Test	Cadmium and Lead	Not exceed the absorbance of the standard solution (100 $\mu\text{g/g}$ or less)				11000
Elution Test	Heavy metals	Not darker in color than the control solution (1 $\mu\text{g/mL}$ or less)		4% acetic acid 60°C × 30min	4% acetic acid 95°C × 30min	3000
	Quantity of KMnO_4 consumed	10 $\mu\text{g/mL}$ or less		Water 60°C × 30min	Water 95°C × 30min	4000
	Methyl methacrylate	Not larger than the peak area of the standard solution (15 $\mu\text{g/mL}$ or less)		20 % ethanol 60°C × 30min		11000
	Evaporation residue	Fats, oils and fatty foods	30 $\mu\text{g/mL}$ or less	Heptane 25°C × 1hour		7000
		Alcoholic beverages		20 % ethanol 60°C × 30min		4500
pH over 5		Water 60°C × 30min		Water 95°C × 30min	4500	
pH 5 or less		4% acetic acid 60°C × 30min		4% acetic acid 95°C × 30min	4500	

9. Mainly composed of polyamide (PA)						
Test Item		Standard		Elution condition		Unit Price (JPY)
				Condition of use $\leq 100^{\circ}\text{C}$	Condition of use $> 100^{\circ}\text{C}$	
Material Test	Cadmium and Lead	Not exceed the absorbance of the standard solution (100 $\mu\text{g/g}$ or less)				11000
Elution Test	Heavy metals	Not darker in color than the control solution (1 $\mu\text{g/mL}$ or less)		4% acetic acid 60°C × 30min	4% acetic acid 95°C × 30min	3000
	Quantity of KMnO_4 consumed	10 $\mu\text{g/mL}$ or less		Water 60°C × 30min	Water 95°C × 30min	4000
	Caprolactam	Not larger than the peak area of the standard solution (15 $\mu\text{g/mL}$ or less)		20 % ethanol 60°C × 30min		12000
	Evaporation residue	Fats, oils and fatty foods	30 $\mu\text{g/mL}$ or less	Heptane 25°C × 1hour		7000
		Alcoholic beverages		20 % ethanol 60°C × 30min		4500
pH over 5		Water 60°C × 30min		Water 95°C × 30min	4500	
pH 5 or less		4% acetic acid 60°C × 30min		4% acetic acid 95°C × 30min	4500	

10. Mainly composed of polymethyl pentene (PMP)						
Test Item		Standard		Elution condition		Unit Price (JPY)
				Condition of use $\leq 100^{\circ}\text{C}$	Condition of use $> 100^{\circ}\text{C}$	
Material Test	Cadmium and Lead	Not exceed the absorbance of the standard solution (100 $\mu\text{g/g}$ or less)				11000
Elution Test	Heavy metals	Not darker in color than the control solution (1 $\mu\text{g/mL}$ or less)		4% acetic acid 60°C × 30min	4% acetic acid 95°C × 30min	3000
	Quantity of KMnO_4 consumed	10 $\mu\text{g/mL}$ or less		Water 60°C × 30min	Water 95°C × 30min	4000
	Evaporation residue	Fats, oils and fatty foods	120 $\mu\text{g/mL}$ or less	Heptane 25°C × 1hour		7000
		Alcoholic beverages	30 $\mu\text{g/mL}$ or less	20 % ethanol 60°C × 30min		4500
		pH over 5		Water 60°C × 30min		Water 95°C × 30min
pH 5 or less		4% acetic acid 60°C × 30min		4% acetic acid 95°C × 30min	4500	

11. Mainly composed of polycarbonate (PC)						
Test Item	Standard		Elution condition		Unit Price (JPY)	
			Condition of use $\leq 100^{\circ}\text{C}$	Condition of use $> 100^{\circ}\text{C}$		
Material Test	Cadmium and Lead	Not exceed the absorbance of the standard solution (100 $\mu\text{g/g}$ or less)		/	11000	
	Bisphenol A	500 $\mu\text{g/g}$ or less (Including phenol and p-tert-butylphenol)			※1 27000	
	Diphenyl carbonate	500 $\mu\text{g/g}$ or less				
	Amines	1 $\mu\text{g/g}$ or less (Triethylamine and tributylamine)			22000	
Elution Test	Heavy metals	Not darker in color than the control solution (1 $\mu\text{g/mL}$ or less)		4% acetic acid 60°C × 30min	4% acetic acid 95°C × 30min	3000
	Quantity of KMnO4 consumed	10 $\mu\text{g/mL}$ or less		Water 60°C × 30min	Water 95°C × 30min	4000
	Bisphenol A	Fats, oils and fatty foods	2.5 $\mu\text{g/mL}$ or less	Heptane 25°C × 1hour		※2
		Alcoholic beverages		20 % ethanol 60°C × 30min		4 solvents
		pH over 5		Water 60°C × 30min	Water 95°C × 30min	
		pH 5 or less		4% acetic acid 60°C × 30min	4% acetic acid 95°C × 30min	37000
	Evaporation residue	Fats, oils and fatty foods	30 $\mu\text{g/mL}$ or less	Heptane 25°C × 1hour		7000
		Alcoholic beverages		20 % ethanol 60°C × 30min		4500
		pH over 5		Water 60°C × 30min	Water 95°C × 30min	4500
		pH 5 or less		4% acetic acid 60°C × 30min	4% acetic acid 95°C × 30min	4500

※1 JPY27000 when Bisphenol A and Diphenyl carbonate are tested at a time. When tested separately, Bisphenol A is JPY22000 and Diphenyl carbonate is JPY17000.

※2 1 solvent: JPY22000, 2 solvents: JPY27000, 3 solvents: JPY32000, 4 solvents: JPY 37000.

12. Mainly composed of polyvinyl alcohol (PVA)						
Test Item	Standard		Elution condition		Unit Price (JPY)	
			Condition of use $\leq 100^{\circ}\text{C}$	Condition of use $> 100^{\circ}\text{C}$		
Material Test	Cadmium and Lead	Not exceed the absorbance of the standard solution (100 $\mu\text{g/g}$ or less)		/		11000
Elution Test	Heavy metals	Not darker in color than the control solution (1 $\mu\text{g/mL}$ or less)		4% acetic acid 60°C × 30min	4% acetic acid 95°C × 30min	3000
	Quantity of KMnO4 consumed	10 $\mu\text{g/mL}$ or less		Water 60°C × 30min	Water 95°C × 30min	4000
	Evaporation residue	Fats, oils and fatty foods	30 $\mu\text{g/mL}$ or less	Heptane 25°C × 1hour		7000
		Alcoholic beverages		20 % ethanol 60°C × 30min		4500
		pH over 5		Water 60°C × 30min	Water 95°C × 30min	4500
		pH 5 or less		4% acetic acid 60°C × 30min	4% acetic acid 95°C × 30min	4500

13. Mainly composed of polylactic acid (PLA)						
Test Item	Standard		Elution condition		Unit Price (JPY)	
			Condition of use $\leq 100^{\circ}\text{C}$	Condition of use $> 100^{\circ}\text{C}$		
Material Test	Cadmium and Lead	Not exceed the absorbance of the standard solution (100 $\mu\text{g/g}$ or less)		/		11000
Elution Test	Heavy metals	Not darker in color than the control solution (1 $\mu\text{g/mL}$ or less)		4% acetic acid 60°C × 30min	4% acetic acid 95°C × 30min	3000
	Quantity of KMnO4 consumed	10 $\mu\text{g/mL}$ or less		Water 60°C × 30min	Water 95°C × 30min	4000
	Total lactic acid	Not larger than the peak area of the standard solution (30 $\mu\text{g/mL}$ or less)				15000
	Evaporation residue	Fats, oils and fatty foods	30 $\mu\text{g/mL}$ or less	Heptane 25°C × 1hour		7000
		Alcoholic beverages		20 % ethanol 60°C × 30min		4500
		pH over 5		Water 60°C × 30min	Water 95°C × 30min	4500
		pH 5 or less		4% acetic acid 60°C × 30min	4% acetic acid 95°C × 30min	4500

14. Mainly composed of polyethylene naphthalate (PEN)						
Test Item		Standard	Elution condition		Unit Price (JPY)	
			Condition of use $\leq 100^{\circ}\text{C}$	Condition of use $> 100^{\circ}\text{C}$		
Material Test	Cadmium and Lead	Not exceed the absorbance of the standard solution (100 $\mu\text{g/g}$ or less)	/		11000	
Elution Test	Heavy metals	Not darker in color than the control solution (1 $\mu\text{g/mL}$ or less)	4% acetic acid 60 $^{\circ}\text{C}$ \times 30min	4% acetic acid 95 $^{\circ}\text{C}$ \times 30min	3000	
	Quantity of KMnO_4 consumed	10 $\mu\text{g/mL}$ or less	Water 60 $^{\circ}\text{C}$ \times 30min	Water 95 $^{\circ}\text{C}$ \times 30min	4000	
	Germanium	Not exceed the absorbance of the standard solution (0.1 $\mu\text{g/mL}$ or less)	4% acetic acid 60 $^{\circ}\text{C}$ \times 30min	4% acetic acid 95 $^{\circ}\text{C}$ \times 30min	7500	
	Evaporation residue	Fats, oils and fatty foods	30 $\mu\text{g/mL}$ or less	Heptane 25 $^{\circ}\text{C}$ \times 1hour		7000
		Alcoholic beverages		20 % ethanol 60 $^{\circ}\text{C}$ \times 30min		4500
pH over 5		Water 60 $^{\circ}\text{C}$ \times 30min		Water 95 $^{\circ}\text{C}$ \times 30min	4500	
pH 5 or less		4% acetic acid 60 $^{\circ}\text{C}$ \times 30min		4% acetic acid 95 $^{\circ}\text{C}$ \times 30min	4500	

15. Synthetic resin in general (general standard)					
Test Item		Standard	Elution condition		Unit Price (JPY)
			Condition of use $\leq 100^{\circ}\text{C}$	Condition of use $> 100^{\circ}\text{C}$	
Material Test	Cadmium and Lead	Not exceed the absorbance of the standard solution (100 $\mu\text{g/g}$ or less)	/		11000
Elution Test	Heavy metals	Not darker in color than the control solution (1 $\mu\text{g/mL}$ or less)	4% acetic acid 60 $^{\circ}\text{C}$ \times 30min	4% acetic acid 95 $^{\circ}\text{C}$ \times 30min	3000
	Quantity of KMnO_4 consumed	10 $\mu\text{g/mL}$ or less	Water 60 $^{\circ}\text{C}$ \times 30min	Water 95 $^{\circ}\text{C}$ \times 30min	4000

Specification for Synthetic-Resin Apparatus, Containers, or Packaging

Required amounts of test samples

1. Required amounts of each test samples

1. Mainly composed of phenol resin (PF), melamine resin (MF) or urea resin (UF)

For each synthetic resin, the required amount for one condition of operating temperature is shown.

Table-1 Required amounts of test samples

Test category Type of Synthetic resin	Material Test	ElutionTest		
		soaking extraction	one-side extraction	filling extraction
1. phenol resin (PF), melamine resin (MF) or urea resin (UF)	3g	According to Evaporation residue condition, * 1condition : minimum 1 sheet. *4conditions : minimum 3 sheets. (1sheet : 210mm × 297mm, A4 size)	According to Evaporation residue condition, * 1condition : minimum 3 sheets. *4conditions : minimum 9 sheets. (1sheet : 210mm × 297mm, A4 size)	Contact us
2. Mainly made of formaldehyde (except PF, MF, UF)	3g			
4. polyethylene (PE) or polypropylene (PP)				
7. polyethylene terephthalate (PET)				
8. polymethyl methacrylate (PMMA)				
9. polyamide (PA)				
10. polymethyl pentene (PMP)				
12. polyvinyl alcohol (PVA)				
13. polylactic acid (PLA)				
14. polyethylene naphthalate (PEN)				
3. polyvinyl chloride (PVC)	10g			
5. polystyrene (PS)	5g			
6. polyvinylidene chloride (PVDC)	8g			
11. polycarbonate (PC)	9g			
15. Synthetic resin in general (general standard)	3g	minimum 1 sheet (1sheet : 210mm × 297mm, A4 size)		

2. Test samples of laminated products for material testing.

A laminated product is tested on the food contact side of the product.

In order to perform material testing, a single material of the food contact side is required as a form of pellets or films.

When a single material is not provided, peeling off the resin from the laminated product will be available with an extra charge (about JPY4000).