

Food hoses and applicable specifications

Food sanitation law (Announcement No. 370 by the Ministry of Health and Welfare)

				Specifications					
				PV	С				
				Utensils or container packages that contact fatty foods	Polyethylene (PE) and Polypropylene (PP)	Nylon (PA)			
				JHP specifications					
		Descriptions of tests		Announcement No.595	Announcement No.267	Announcement No.595	Announcement No.595		
suc	Materials	Lead	100 µg/g or less	-	100 µg/g or less	100 µg/g or less			
General specifications		Cadmium	100 µg/g or less	-	100 µg/g or less	100 µg/g or less			
speci		Bis phthalate (2-ethylhexyl)		-	Do not use.(Less than 0.1%)	-	-		
neral	Elution	Precious metals	1 µg/m or less	-	1 µg/m or less	1 µg/m or less			
Ge		Potassium permanganate consun	10 µg/m or less	-	10 µg/m or less	10 µg/m or less			
	Material test	Dibutyltin compound	50 µg/g or less	-	-	-			
su		Cresol phosphoric adid ester		1000 µg/g or less	-	-	-		
catio		Polyvinyl chloride	1 µg/m or less	-	-	-			
ecifi	Elution test	Evaporation residue	heptane	150 µg/m or less	-	150 µg/m or less			
al sp			20% ethanol		-		20 ug/m or loss		
Individual specifications			Water	30 µg/m or less	-	30 µg/m or less	30 µg/m or less		
			4% acetic acid]	-				
		Caprolactam	20% ethanol	15 µg/m or less	-	-	15 µg/m or less		

Outline of the specifications

	Announcement and name of the specifications	Descriptions	Target food products		
Food sanitation law	Announcement No.595 by the Health, labour and Welfare Ministry in 2011	Utensils or container packages made of synthetic resin	Fatty foods, alcoholic beverages, and other food products		
JHP specifications	Established by Japan Hygienic PVC Association (JHPA)	Self-imposed control of the food sanitation for vinyl chloride resin products			

Food sanitation law (Announcement No. 595 by the Ministry of Health and Welfare)

Material test					
2-mercaptoimidazoline	Pb	Cd			
ND (conducted for chlorinated rubbers)	100 µg/g or less	100 µg/g or less			

Our accepted products	Elution condition			Elution test						
	The test is conducted by soaking in an immersion solution of 2ml per 1cm ² in 60°C for 30 minutes, and the resulted solution is studied (for the products to be used in the temperature of 100 degrees or more, they are soaked in 95°C for 30 minutes).	Phenol	Formic aldehyde	Zn	Precious metals	Evaporation residue				
		Water	Water	4% acetic acid	4% acetic acid	Water	4% acetic acid	20% ethanol		
Silicone hose		5 µg/ml or less	Negative	15 µg/ml or less	1 μg/ml or less	Food and water exceeding PH5	Food of below PH5	Alcoholic beverages and fatty foods		
						60 µg/ml or less				

Our approved products and test menus

Foods Hose		Announcement and general application	Descriptions	Target foods		Specifications standard
Pure Foods Hose Pure Foods Spring Hose	stry of Health, e	Announcement No.267 (2002)	Utensils or container packages made of vinyl chloride resin	Fatty foods	Materials and elution test	The compounding agent "Bis phthalate (2-ethylhexyl)" is below the standard value. Content: 0.1% or less Elution amount: 1µg/ml or less (immersion condition: 25°C for one hour)
Pure Foods Hose	e Min Velfa		Utensils or container packages made of synthetic resin	Fatty foods		In the specifications test, elution amount is 150 μ g/ml or less in the condition where the heptane is used for the immersion solution in 25°C for an hour.
Pure Foods Spring Hose	se se se			Alcoholic beverages	and	In the specifications test, elution amount is 30 μ g/ml or less in the condition where the 20% ethanol is used for the immersion solution in 25°C for 30 minutes.
Heat-Resistant Eco Hose				Other foods	test a	In the specifications test, elution amount is 30 μ g/ml or less in the condition where the 4% acetic acid and water are used for the immersion solution in 60°C for 30 minutes.
	anitation Lab	⁰ No EOE (2011)	Utensils or container packages made of rubbers	Fatty foods	Elution	In the specifications test, elution amount is 60 μg/ml or less in the condition where the 20% ethanol is used for the immersion solution in 60°C for 30 minutes.
Silicone Hose	Food san			Alcoholic beverages	ElL	In the specifications test, elution amount is 60 μg/ml or less in the condition where the 20% ethanol is used for the immersion solution in 60°C for 30 minutes.
				Other foods		In the specifications test, elution amount is 60 µg/ml or less in the condition where the 4% acetic acid and water are used for the immersion solution in 60°C for 30 minutes (if the operating temperature exceeds 100°C, they must be 95°C for 30 minutes).

Penalty: Sentence of six months or less, or fine of 300,000 yen or less (applicable for both provider and user)

Hoses are regarded as one of the utensils. For the food sanitation law, only the provision, "utensils or container packages that contact foods or food additives", is applicable.

JHP specifications (self-imposed control on the food sanitation for vinyl chloride resin products) have following meanings:

* Health and Welfare Ministry announcement No.595

According to the Notice of the Ministry of Health and Welfare No. 85, April 1st in 1986. The Notice of the Ministry of Health and Welfare No. 20 prescribes only for nursing equipments as Rubber Products so No.85 was newly prescribed for the whole field of rubber products as below but due to the revision of the test method, No.595 was prescribed in 2012.