



The products distributed by 24Bottles Società Benefit S.r.l. are made of AISI 304 stainless steel 18/8, silicon, tritan and polypropylene and are compliant to:

- **Regulation CE n. 2023/2006 and subsequent updates and revisions**
- **DPR 777/82 and subsequent updates and revisions**

The black polypropylene component are compliant to:

- **Regulation n° 1935/2004 CE and amend.**
- **Regulation UE 10/2011 and amend.**
- **Ministerial Decree 21/03/1973 SO GU n°104 20/04/1973 and amen.**
- **FDA 21 crf 177.1520 - Olefin polymers**
- **GB 4806.6 – 2016 - National Food Safety Standard -- Plastic Resin used in food-contact**

The tritan component are compliant to:

- **Regulation n° 1935/2004 CE and amend.**
- **Regulation UE 10/2011 and amend.**
- **Ministerial Decree 21/03/1973 SO GU n°104 20/04/1973 and amen.**
- **FDA 21 crf 177.1630 - Polyethylene phthalate polymers**
- **GB 4806.6 – 2016 - National Food Safety Standard -- Plastic Resin used in food-contact**

The silicon component are compliant to:

- **Regulation n° 1935/2004 CE and amend.**
- **Regulation UE 10/2011 and amend.**
- **European Resolution ReAP(2004)5 on Silicones Used for Food Contact Applications**
- **Ministerial Decree 21/03/1973 SO GU n°104 20/04/1973 and amen.**
- **Loi n°2010-729 du 30 juin 2010 and amend, DGCCRF**
- **Arrêté du 25 novembre 1992 relatif aux matériaux et objets en élastomères de silicone**
- **Bundesinstitut für Risikobewertung XV Sez. III**
- **Bundesinstitut für Risikobewertung IX**
- **FDA 21 crf 177.1210 - Closures with sealing gaskets for food containers**
- **GB 4806.11 – 2016 - National Food Safety Standard -- Food contact rubber materials and products**

All of the products' components are compliant to the over-mentioned regulations despite of their coloring.

24Bottles Società Benefit S.r.l.

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Sample identified as: Lunchbox



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Sample identified as: black polypropylene component



❖ Regulation n° 1935/2004 CE and amend.

- Screening GC/MS of semi-volatile substances

Simulant	Time	Temperature
EtOH 95%	2h	60°C

- Screening HS/ GC-MS of volatile organic substances (30', 120°C)

- Screening HPLC/QTOF of non volatile substances

Simulant	Time	Temperature
EtOH 95%	2h	60°C

- Evaluation of organoleptic inertia (flavour)

Simulant	Time	Temperature
Water	24h	40°C
Milk	24h	40°C
Olive Oil	24h	40°C

- Evaluation of organoleptic inertia (odour) -

Simulant	Time	Temperature
Water	24h	40°C
Milk	24h	40°C
Olive Oil	24h	40°C

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❖ **Regulation UE 10/2011 and amend.**

- Overall Migrations (first, second, third attack)

Simulant	Time	Temperature
Acetic Acid 4%	2h	70°C
Ethanol 10%	2h	70°C
Olive Oil	2h	70°C

- Specific Migration of heavy metals (Al, Sb, As, Ba, Cd, Cd, Co, Cu, Fe, Pb, Li, Mn, Hg, Ni, Zn) (first, second, third attack)

Simulant	Time	Temperature
Acetic acid 4%	2h	70°C

- Specific migration of 4 lanthanides (La, Eu, Gd, Tb) (first, second, third attack)

Simulant	Time	Temperature
Acetic acid 4%	2h	70°C

- Sum of Specific migration of lathanides (first, second, third attack)

Simulant	Time	Temperature
Acetic acid 4%	2h	70°C

- Primary aromatic amines in 4% acetic acid (first, second, third attack)

Simulant	Time	Temperature
Acetic acid 4%	2h	70°C

- Specific migration of sum of primary aromatic amines (first, third attack)

Simulant	Time	Temperature
Acetic acid 4%	2h	70°C

❖ **Ministerial Decree 21/03/1973 SO GU n°104 20/04/1973 and amen.**

- Specific migration of colourings

Simulant	Time	Temperature
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Acetic Acid 4%	2h	70°C
Ethanol 10%	2h	70°C
Sunflower oil	2h	70°C

❖ **FDA 21 crf 177.1520 - Olefin polymers**

Test Item	Time	Temperature
Xylene extractive (% m/m)	2h	25°C

❖ **GB 4806.6 – 2016 - National Food Safety Standard -- Plastic Resin used in food-contact**

Test Item
Sensory inspection
Colour and Luster
Abnormal odour and dirt
Soak Solution condition
Coloration
Abnormal Odour
Precipitation
Turbidity
Potassium Permanganate Consumption
Decolorization

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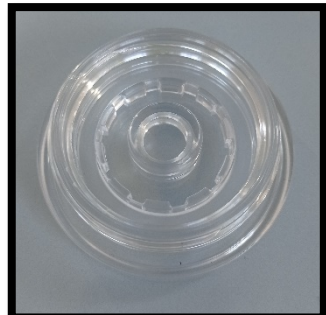
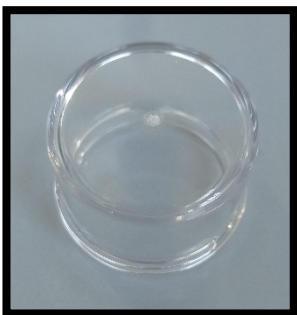
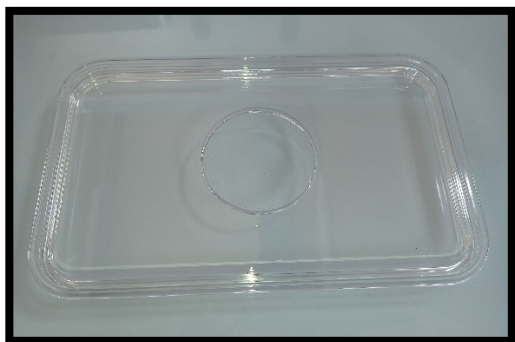
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Sample identified as: tritan component



❖ Regulation n° 1935/2004 CE and amend.

- Screening GC/MS of semi-volatile substances

Simulant	Time	Temperature
EtOH 95%	2h	60°C

- Screening HS/ GC-MS of volatile organic substances (30', 120°C)

- Screening HPLC/QTOF of non volatile substances

Simulant	Time	Temperature
EtOH 95%	2h	60°C

- Evaluation of organoleptic inertia (flavour)

Simulant	Time	Temperature
Water	24h	40°C
Milk	24h	40°C
Olive Oil	24h	40°C

- Evaluation of organoleptic inertia (odour) -

Simulant	Time	Temperature
Water	24h	40°C
Milk	24h	40°C
Olive Oil	24h	40°C

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❖ **Regulation UE 10/2011 and amend.**

- Overall Migrations (first, second, third attack)

Simulant	Time	Temperature
Acetic Acid 4%	2h	70°C
Ethanol 10%	2h	70°C
Olive Oil	2h	70°C

- Specific Migration of heavy metals (Al, Sb, As, Ba, Cd, Cd, Co, Cu, Fe, Pb, Li, Mn, Hg, Ni, Zn) (first, second, third attack)

Simulant	Time	Temperature
Acetic acid 4%	2h	70°C

- Specific migration of 4 lanthanides (La, Eu, Gd, Tb) (first, second, third attack)

Simulant	Time	Temperature
Acetic acid 4%	2h	70°C

- Sum of Specific migration of lathanides (first, second, third attack)

Simulant	Time	Temperature
Acetic acid 4%	2h	70°C

- Primary aromatic amines in 4% acetic acid (first, second, third attack)

Simulant	Time	Temperature
Acetic acid 4%	2h	70°C

- Specific migration of sum of primary aromatic amines (first, third attack)

Simulant	Time	Temperature
Acetic acid 4%	2h	70°C

❖ **Ministerial Decree 21/03/1973 SO GU n°104 20/04/1973 and amen.**

- Specific migration of colourings

Simulant	Time	Temperature
Acetic Acid 4%	2h	70°C

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Ethanol 10%	2h	70°C
Sunflower oil	2h	70°C

❖ **FDA 21 crf 177.1630, Polyethylene phthalate polymers**

Test Item	Time	Temperature
Extractable fraction in chloroform of n-heptane	15'	120 deg F
Extractable fraction in chloroform of distilled water 120 fill boiling, cool to 100 deg.F	-	-

❖ **GB 4806.6 – 2016 - National Food Safety Standard -- Plastic Resin used in food-contact**

Test Item
Sensory ispection
Colour and Luster
Abnormal odour and dirt
Soak Solution condition
Coloration
Abnormal Odour
Precipitation
Turbidity
Potassium Permaganate Consumption
Decolorization test

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Sample identified as: silicone component



❖ **Regulation n° 1935/2004 CE and amend.**

- Screening GC/MS of semi-volatile substances

Simulant	Time	Temperature
Isottano	30'	40°C

- Screening HS/ GC-MS of volatile organic substances (30', 120°C)

- Evaluation of organoleptic inertia (flavour)

Simulant	Time	Temperature
Water	24h	40°C
Milk	24h	40°C
Olive Oil	24h	40°C

- Evaluation of organoleptic inertia (odour) -

Simulant	Time	Temperature
Water	24h	40°C
Milk	24h	40°C
Olive Oil	24h	40°C

❖ **Regulation UE 10/2011 and amend.**

- Specific Migration of heavy metals (Al, Sb, As, Ba, Cd, Cd, Co, Cu, Fe, Pb, Li, Mn, Hg, Ni, Zn) (first, second, third attack)

Simulant	Time	Temperature
Acetic acid 4%	2h	70°C

- Specific migration of 4 lanthanides (La, Eu, Gd, Tb) (first, second, third attack)

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Simulant	Time	Temperature
Acetic acid 4%	2h	70°C

- Specific migration of Platinum (Pt)

Simulant	Time	Temperature
Acetic acid 4%	2h	70°C

- Sum of Specific migration of lathanides (first, second, third attack)

Simulant	Time	Temperature
Acetic acid 4%	2h	70°C

- Primary aromatic amines in 4% acetic acid (first, second, third attack)

Simulant	Time	Temperature
Acetic acid 4%	2h	70°C

- Specific migration of sum of primary aromatic amines (first, third attack)

Simulant	Time	Temperature
Acetic acid 4%	2h	70°C

❖ **Ministerial Decree 21/03/1973 SO GU n°104 20/04/1973 and amen.**

- Overall Migrations (first, second, third attack)

Simulant	Time	Temperature
Acetic Acid 4%	2h	70°C
Ethanol 10%	2h	70°C
Olive Oil	2h	70°C

- Specific migration of colourings

Simulant	Time	Temperature
Acetic Acid 4%	2h	70°C
Ethanol 10%	2h	70°C
Sunflower oil	2h	70°C



❖ **Loi n°2010-729 du 30 juin 2010 and amend, DGCCRF**

- Content of 2,2-bis(4-hydroxyphenyl) propane (Bisphenol A)_CAS 80-05-7

❖ **REACH Annex XVII**

- Content of Polycyclic Aromatic Hydrocarbons (PAHs)

Test Item (s)	CAS
Acenaphthene	83-32-9
Acenaphthylene	208-96-8
Anthracene	120-12-7
Benzo(a)anthracene	56-55-3
Benzo(a)fluoranthene	203-33-8
Benzo(a)pyrene	50-32-8
Benzo(e)pyrene	192-97-2
Benzo(g,h,i)perylene	191-24-2
Benzo(h)fluoranthene	205-99-2
Benzo(j)fluoranthene	205-82-3
Benzo(k)fluoranthene	207-08-9
Chrysene	218-01-9
Dibenzo(a,h)anthracene	53-70-3
Phenanthrene	85-01-8
Fluoranthrene	206-44-0
Fluorene	86-73-7
Indeno(1,2,3cd)pyrene	193-39-5
Naphtalene	91-20-3
Pyrene	129-00-0

❖ **FDA 21 crf 177.1210, Closures with sealing gaskets for food containers**

Test Item	Time	Temperature
Extractable fraction in distilled water	2h	150° F
Extractable fraction in distilled water	48h	70°F
Extractable fraction in n-eptano	30'	70°F
Extractable fraction in chloroform of EtOH 8%	2h	150°F

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Extractable fraction in chloroform of EtOH 8%	48h	70°F
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❖ **Arrêté du 25 novembre 1992 relatif aux matériaux et objets en élastomères de silicone**

- Colourings purity: soluble heavy metals in HCl 0,01N (Content As, Cd, Cr, Ba, Se, Hg, Pb, Sb)

Test Item (s)
Content of Cadmium
Content of Chromium
Content of Barium
Content of Selenium
Content of Mercury
Content of Lead
Content of Arsenic by cold extraction
Content of Antimony

- Content of Volatile Organic Compounds (VOC) 4h at 200°C
- Organotin content (expressed as tin in 3% acetic acid)

❖ **Bundesinstitut für Risikobewertung XV Sez. III**

- Extractable fraction

Test Item	Time	Temperature
Distilled water extractive	4h	Reflux
Acetic Acid 3% extractive	4h	Reflux
Ethanol 10% extractive	4h	Reflux
Ethanol 50% extractive	4h	Reflux

- Content of Volatile Organic Compounds (VOC)
- Content of Platinum
- Content of Peroxydes

❖ **Bundesinstitut für Risikobewertung IX**

- Colourings purity: soluble heavy metals in 0,07 N HCl

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Test Item (s)
Content of Cadmium
Content of Chromium
Content of Barium
Content of Selenium
Content of Mercury
Content of Lead
Content of Arsenic by cold extraction
Content of Antimony

❖ **GB 4806.11 – 2016 - National Food Safety Standard -- Food contact rubber materials and products**

Test Item
Sensory inspection
Colour and Luster
Abnormal odour and dirt
Soak Solution condition
Coloration
Abnormal Odour
Precipitation
Turbidity
Potassium Permanganate Consumption

24/05/2022

24 BOTTLES SOCIETÀ BENEFIT S.R.L.
A SOCIO UNICO
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