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IVORY
爱得利

给妈妈安心的好品质

说 明 函

关于爱得利一批次少量 PPSU 奶瓶中配套的奶嘴 VOC（挥发性物质含量）被深圳市品质消费研究院抽检轻微超标的事情，该批次已报废处理。

由于 GB 4806.2-2015 国家标准中挥发性物质 VOC 这项指标引用国标 GB 28482-2012《婴幼儿安抚奶嘴安全要求》，而这份标准是按欧盟标准 EN1400-2002《儿童使用护理制品 婴幼儿安抚奶嘴》修改制定的，EN1400-2002 其中一个指标“挥发性物质含量 VOC”的要求为：含量不得超过 0.5%，该指标的测试方法中有个环节是“将约 10g 样品剪成 2cm²的样片”。2013 年欧盟已对 EN1400-2002 进行了修订，发布新标准 EN1400-2013 并有特别说明：暂无任何证据表明硅胶奶嘴中发现的挥发性物质 VOC 会构成健康危害（BS EN 1400:2013+A1:2014，P50 页和 P70 页），同时考虑到容易造成检测差异，测试方法规定取样时奶嘴头一分为二处理，不进行剪成 2cm²样片的处理，并在检测判定时增加 0.3%的分析公差，也就是说测试结果在 0.8%以下是符合最新欧盟标准（欧盟制定的婴幼儿产品标准历来是全球最严格周全的）。

尽管我司的奶嘴在第一次抽检中（0.69%）略超出国标，但还是符合欧盟的最新标准（EN 1400:2013），不会对消费者构成健康危害，且深圳市品质消费研究院对我司产品 VOC 再次抽检检测结果是符合国家标准，请消费者放心使用。

附：（1）BS EN 1400:2013+A1:2014，P50 页和 P70 页对硅胶奶嘴 VOC 的说明

（2）复检检测报告

（3）VOC 检测报告

厦门帝尔特企业有限公司

2018 年 8 月 21 日



This oven shall have a mechanical air circulation system to provide an average air change of as near to 50 changes per hour as possible.

10.8.2.1.3 Desiccator, with fresh anhydrous calcium chloride or fresh self indicating silica gel.

10.8.2.1.4 Watch glass 125 mm diameter.

10.8.2.2 Method

Preheat the watch glass (10.8.2.1.4) in the oven (10.8.2.1.2) maintained at $(100 \pm 5) ^\circ\text{C}$ for (60 ± 5) min. Remove from the oven and cool in a desiccator (10.8.2.1.3) for (60 ± 5) min. After cooling, weigh the watch glass and record as *Weight A*.

Remove the teats from the soother samples (see 6.4) by cutting as close to the shield as possible. Cut the teats in half along the major axis. No further cutting of the teats shall be undertaken. Place the cut teats in the watch glass.

It is recommended to use four or five teats, weighing approximately 10 g.

Place the watch glass with the sample teats in the oven at $(100 \pm 5) ^\circ\text{C}$ for (60 ± 5) min. Remove from oven and cool in the desiccator for (60 ± 5) min. After cooling, weigh the watch glass and sample and record as *Weight B*.

Replace the watch glass and sample in the oven at $(200 \pm 5) ^\circ\text{C}$ for $4 \text{ h} \pm 5 \text{ min}$. Place the watch glass and sample in the desiccator to cool for $2 \text{ h} \pm 5 \text{ min}$ and re-weigh; record as *Weight C*.

10.8.2.3 Calculation of results

The volatile compounds content is calculated from the percentage weight difference between *Weight B* and *Weight C*, after deducting the weight of the watch glass (*Weight A*), as follows:

$$\left\{ (B - C) \div (B - A) \right\} \times 100 \quad (1)$$

where

A is *Weight A* (g);

B is *Weight B* (g);

C is *Weight C* (g).

It is recommended that the test be carried out at least in duplicate.

Any volatile compounds content result above the limit specified in 10.8.1 shall be subjected to an analytical tolerance of 0,3 %.

Examples of applying the analytical tolerance are shown in Table 11.

However, the EU has temporarily banned the use of BPA in infant bottles (for children less than one year old) as from 1 May 2011 [31], [32] but this does not apply to soothers. The EU Directive states the EFSA Opinion on BPA is still valid and therefore the Technical Committee has included a requirement for BPA in soothers based on the TDI from the EFSA Opinions.

Using a defined method such as EN 71-10 [33] (see B.20.5) which simulates the effect of mouthing, a maximum migration limit can be calculated on the amount of the migration solution volume. Using the allocated percentage of the TDI (see B.20.4), the migration solution volume (see B.20.5 Common migration rules), and the weight of a child (see B.20.2), the migration limit can be calculated with the same formula used in B.24, which is 0,125 mg/l.

Therefore, the weight of the soother plays no part in the calculation of the migration limit and the weighing of the soother in 10.6.2 has been excluded.

B.27 Colourants (see 10.7)

Pigments and dyes are used in the materials that form the different components of soothers. These are usually retained in the matrix of the material particularly where thermoplastics are used for the shield, ring and knob, and rarely in elastomeric teats. A colour fastness test method is used to ensure these colourants are not released.

B.28 Volatile compounds content (see 10.8)

The volatiles compound content is a measure of the cleanliness and the degree of curing of the silicone, which might affect properties such as the tear and puncture resistance of the soother teat. The Technical Committee was unable to find any evidence that the volatile compounds normally found in silicone soother teats for example constitute a health hazard.

The test procedure has been extensively studied by the Technical Committee with the aid of two round robin trials. It was found that repeatability and reproducibility were far poorer than that required for a validated test method, possibly due to the relatively low volatility of the compounds normally found in silicone teats and also the variation between ovens.

However, it was felt that the test should remain in this standard as a measure to avoid silicone teats that had not been post-cured from entering the market.

A further round robin trial was carried out on post-cured and uncured teats manufactured from the same moulding batches and the results indicated that with a high degree of probability soother teats having volatile compounds content of up to 0,8 % were satisfactorily post-cured.

Therefore it was decided to leave the requirement at 0,5 % but to apply an analytical tolerance of 0,3 %, which is to be subtracted from any analytical result that exceeds 0,5 %. By this means, both the issue of uncured teats and the reproducibility problems are addressed.

In addition, a number of significant changes have been made to the test procedure as compared with EN 1400:2002 series.

B.29 Teat protectors (see 11)

Teat protectors are marketed by some manufacturers to protect the teat while the soother is not being used by the child.

The Technical Committee considers that it is foreseeable that a teat protector whether fixed to the soother or not, may be mouthed by the child. Accordingly, requirements have been set for size, ventilation holes and impact resistance.



BUREAU
VERITAS

CONSUMER PRODUCTS SERVICES DIVISION

深圳市品质消费研究院

测试报告: (8518)207-0698
样品接收日期: 2018年07月26日

2018年08月06日
第1页共3页

深圳市品质消费研究院
深圳市福田区新洲南路4009号8楼

样品描述:	PPSU 带柄自动宽口径奶瓶	品牌:	爱得利
标签年龄:	2M+	地区:	福建省厦门市
适用年龄等级:	不作要求	产地:	福建省厦门市
客户要求测试年龄:	不作要求	规格 (毫升 ml):	240ml
测试年龄:	儿童产品, 6个月以上	材质:	PPSU
通用产品代码:	6935936180639	适用年龄:	2个月以上
奶嘴型号:	十字孔 (2个月以上变流量)	保质日期:	10年
生产日期:	2018.04.16		
购买渠道:	淘宝: 爱得利母婴旗舰店		

测试结果摘要:

样品符合以下要求:

挥发性物质- GB 4806.2-2015 食品安全国家标准 奶嘴

深圳必维华法商品检定有限公司

蔡汉光
高级经理
化学部





深圳市品质消费研究院
测试报告:: (8518)207-0698
2018年8月06日
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测试结果:

样品编号	样品描述	客户声称材料
A	无色奶嘴	硅胶

1. 理化指标- GB 4806.2-2015 食品安全国家标准 奶嘴

测试项目	单位	测试方法	限值	测试结果	结论
				A	
挥发性物质	% (质量分数)	GB 28482-2012	≤0.5	0.28	合格

备注: “<”=小于

“≤”=小于等于



深圳市品质消费研究院
测试报告:: (8518)207-0698
2018年8月06日
第3页共3页

测试结果:





常州进出口工业及消费品安全检测中心
CHANGZHOU SAFETY TESTING CENTER FOR ENTRY-EXIT
INDUSTRIAL AND CONSUMABLE PRODUCTS
国家食品接触材料检测重点实验室
STATE KEY TESTING LABORATORY OF FOOD CONTACT MATERIALS



中国认可
检测
TESTING
CNAS L0384

正本
ORIGINAL

页码: 1 / 2

出证日期: 2018/07/16

证书编号: FCM1812301

检 验 报 告

样品名称: PPSU 带柄自动宽口径奶瓶-奶嘴
申请单位: 厦门帝尔特企业有限公司
地 址: 厦门市思明区湖滨北路金星路 61-69 号
生产单位: 厦门帝尔特企业有限公司
样品来源: 委托送样
样品材质: 硅橡胶
样品描述: 宽口径 240mL, 产品条形码: 6935936180639
样品数量: 10 个
生产批号: 20180416
样品编号: FCM1812301
接样日期: 2018/07/09
检验日期: 2018/07/09~07/16

拟装食品:	婴幼儿专用奶粉
使用人群:	婴幼儿专用
使用条件:	重复使用
使用 S/V:	未知
清洗要求:	使用前用蒸馏水进行清洗
检验依据:	依据客户要求, 按照 GB 4806.2-2015 测试
检验项目:	挥发性物质
方法依据:	见续页
检验结果:	见续页
结 论:	见续页

签 发:

商贵芹

注 1: 除非特别说明, 本报告中数据仅对检测样品负责。

UNLESS OTHERWISE STATED, THE RESULTS SHOWN IN THIS TEST REPORT REFER ONLY TO THE SAMPLE(S) TESTED.

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出证日期: 2018/07/16

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检验结果

检 验 项 目	检 验 结 果	限 量 要 求	单 项 判 定	方 法 依 据
挥发性物质, %, m/m	0.201	≤0.5	合 格	GB 28482-2012

样 品 图 片



*** 结 束 ***

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