

测试报告

No. NGBHG1901081002

日期: 2019年04月01日 第1页,共10页

金华大荣涂料有限公司 中国浙江省金华市秋滨工业区石城街399号6号厂房

以下测试之样品是由申请者所提供及确认: 氟树脂(PTFE) 水溶性涂料

SGS工作编号: NBHL1903003350CW - NB

样品接收日期: 2019年03月22日

测试周期: 2019年03月22日 - 2019年04月01日

测试要求: 根据客户要求测试

测试方法: 请参见下一页 测试结果: 请参见下一页



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测试报告

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测试结果概要:

测试要求	结论
德国食品与日用品法案(LFGB)(2005年9月1日)第30和31章节及其修正法案,欧洲委员会AP(2004)1决议以及BfR建议-总迁移量	符合
德国食品与日用品法案(LFGB)(2005年9月1日)第30和31章节及其修正法案以 及BfR建议颜色迁移	符合
德国食品与日用品法案(LFGB)(2005年9月1日)第30和31章节及其修正法案以及BfR建议-感官(气味和味道)测试	符合
德国食品与日用品法案(LFGB)(2005年9月1日)第30和31章节及其修正法案,欧盟委员会法规 (EU) No 10/2011(2011年1月14日)及其修正法案以及BfR建议-全氟辛酸 (PFOA)特定迁移量	符合
德国食品与日用品法案(LFGB)(2005年9月1日)第30和31章节及其修正法案,欧盟委员会法规 (EU) No 10/2011(2011年1月14日)及其修正法案以及BfR建议-全氟辛烷磺酸 (PFOS)特定迁移量	符合
德国食品与日用品法案(LFGB)(2005年9月1日)第30和31章节及其修正法案以及BfR建议-三价铬和六价铬特定迁移量	符合
德国食品与日用品法案(LFGB)(2005年9月1日)第30和31章节及其修正法案, 欧盟委员会法规 (EU) No 10/2011(2011年1月14日) 及其修正法案和BfR建议-双酚 A特定迁移量	符合
德国食品与日用品法案(LFGB)(2005年9月1日)第30和31章节及其修正法案,欧盟委员会法规 (EU) No 10/2011(2011年1月14日)及其修正法案以及BfR建议-多环芳香烃(PAHs)特定迁移量	符合
德国食品与日用品法案(LFGB)(2005年9月1日)第30和31章节及其修正法案,欧盟委员会法规 (EU) No 10/2011(2011年1月14日)及其修正法案以及BfR建议-重金属特定迁移量	符合
德国食品与日用品法案(LFGB)(2005年9月1日)第30和31章节及其修正法案,以及欧洲委员会决议CM/Res(2013)9和BfR建议-重金属特定迁移量	符合

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萨岭和

Iris Xiao肖玲艳 批准签署人



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测试结果:

测试样品描述:

材质 描述 样品编号 SGS样品ID (客户提供)

铝+ 不粘涂层 SN1 NGB19-010810.001 银色金属锅带黑色涂层

备注:

(1) mg/dm² = 毫克每平方分米

(2) mg/kg = 毫克每千克

(3) ℃= 摄氏度

(4) < = 小于

(5) MDL = 方法检测限

(6) ND = 未检出 (< MDL)

德国食品与日用品法案(LFGB)(2005年9月1日)第30和31章节及其修正法案,欧洲委员会AP(2004)1决议以 及BfR建议-总迁移量

测试方法: 参考欧洲委员会法规(EU) No 10/2011(2011年1月14日)附录Ⅲ和附录V进行测试条件的选择,参

考EN1186-1: 2002进行测试方法的选择:

EN1186-9:2002用水性食品模拟液进行填充法测试;

EN1186-14:2002替代测试.

常用模拟液	<u>时间</u>	<u>温度</u>	最大允许限值	<u>样品001</u> <u>总迁移量</u>
3%乙酸水溶液(W/V)	4.0hr(s)	100°C	10mg/dm²	<3.0mg/dm²
10%乙醇水溶液(V/V)	4.0hr(s)	100°C	10mg/dm²	<3.0mg/dm ²
95%乙醇	6.0hr(s)	60°C	10mg/dm²	<3.0mg/dm²
异辛烷	4.0hr(s)	60°C	10mg/dm ²	<3.0mg/dm²

备注:

- (1) 水性食品模拟液的分析允差是2mg/dm²。
- (2) 脂肪性食品模拟液的分析允差是3 mg/dm²。
- (3) 测试条件和模拟液由客户指定。

<u>德国食品与日用品法案(LFGB)(2005年9月1日)第30和31章节及其修正法案以及BfR建议-颜色迁移</u>

测试方法: 参考Kunststoffe im Lebensmittelverkehr. Part B II IX。



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 测试项目
 限值
 001

 2%乙酸(W/W)
 ★
 阴性

 椰子油
 ★
 阴性

备注:

(1) ★=颜色未见。

(2) 阴性=颜色未见;阳性=颜色可见。

德国食品与日用品法案(LFGB)(2005年9月1日)第30和31章节及其修正法案以及BfR建议-感官(气味和味道)测试

测试方法: 参考DIN 10955:2004

测试媒介:蒸馏水测试人员数:6

<u>测试项目</u>	<u>限值</u>	<u>001</u>
测试时间 (hr)	-	4
温度(℃)	-	100
感官(气味) 测试 (分数制)	2.5	0
感官(味道)测试 (分数制)	2.5	0

备注:

分数评价:

- 0: 与原始气味和味道无差别
- 1: 与原始气味和味道极小差别
- 2: 与原始气味和味道微弱的可察觉的差别
- 3: 与原始气味和味道明显可察觉的差别
- 4: 与原始气味和味道极大的差别

<u>德国食品与日用品法案(LFGB)(2005年9月1日)第30和31章节及其修正法案,欧盟委员会法规 (EU) No 10/2011(2011年1月14日) 及其修正法案以及BfR建议-全氟辛酸 (PFOA)特定迁移量</u>

测试方法: 参考EN13130-1:2004, 采用LC-MS分析。

样品 001

模拟液: 3% 乙酸水溶液(W/V) 迁移测试条件: 100.0 ℃ 2.0 hr(s)

测试项目限值单位MDL测试结果萃取次数--第一次面积/体积-dm²/kg-3.2



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全氟辛酸(PFOA)特定迁移量 0.005 mg/dm² 0.002 ND

备注:

(1) 测试条件和模拟液由客户指定。

<u>德国食品与日用品法案(LFGB)(2005年9月1日)第30和31章节及其修正法案,欧盟委员会法规 (EU) No 10/2011(2011年1月14日) 及其修正法案以及BfR建议-全氟辛烷磺酸 (PFOS)特定迁移量</u>

测试方法: 参考EN13130-1:2004, 采用LC-MS分析。

样品 001

模拟液: 3%乙酸水溶液(W/V) 迁移测试条件: 100.0 ℃ 2.0 hr(s)

<u>测试项目</u>	<u>限值</u>	<u>单位</u>	<u>MDL</u>	测试结果
萃取次数	-	-	-	第一次
面积/体积	-	dm²/kg	-	3.2
全氟辛烷磺酰基化合物(PFOS)特定迁移量	0.01	mg/kg	0.01	ND

备注:

(1) 测试条件和模拟液由客户指定。

德国食品与日用品法案(LFGB)(2005年9月1日)第30和31章节及其修正法案以及BfR建议-三价铬和六价铬特定迁 移量

测试方法: 参考EN13130-1:2004; 采用ICP-OES分析。

样品 001

模拟液: 3%乙酸水溶液(W/V)

迁移测试条件: 100 ℃ 2 hr(s)

测试项目	<u>限值</u>	<u>单位</u>	<u>MDL</u>	测试结果
萃取次数	-	-	-	第三次
面积/体积	-	dm²/kg	-	3.2
可迁移六价铬	*	mg/dm²	0.004	ND*
可迁移三价铬	0.02	mg/dm²	0.004	ND*

备注:

- (1) ★=不得检出
- (2) 测试条件和模拟液由客户指定。
- (3) * =检测的总铬含量是"ND", 所以认为六价铬和三价铬含量也是"ND".



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测试方法: 参考EN13130-1: 2004,采用HPLC-DAD进行分析。

样品 001

模拟液: 3%乙酸水溶液(W/V) 迁移测试条件: 100 °C 2.0 hr(s)

测试项目	<u>限值</u>	<u>单位</u>	<u>MDL</u>	测试结果
萃取次数	-	-	-	第三次
面积/体积	-	dm²/kg	-	3.2
双酚A特定迁移量	0.05	mg/kg	0.01	ND

备注:

(1) 测试条件和模拟液由客户指定。

德国食品与日用品法案(LFGB)(2005年9月1日)第30和31章节及其修正法案,欧盟委员会法规 (EU) No 10/2011(2011年1月14日) 及其修正法案以及BfR建议-多环芳香烃(PAHs) 特定迁移量

测试方法: 参考EN13130-1:2004, 采用GC-MS进行分析。

样品 001

模拟液: 异辛烷

迁移测试条件: 60 °C 4 hr(s)

测试项目	<u>限值</u>	<u>单位</u>	MDL	<u>测试结果</u>
萃取次数	-	-	-	第一次
面积/体积	-	dm²/kg	-	3.2
萘 (NAP)	*	mg/kg	0.01	ND
苊烯(ANY)	*	mg/kg	0.01	ND
苊(萘嵌戊烷) (ANA)	*	mg/kg	0.01	ND
芴 (FLU)	*	mg/kg	0.01	ND
菲 (PHE)	*	mg/kg	0.01	ND
蒽 (ANT)	*	mg/kg	0.01	ND
荧蒽 (FLT)	*	mg/kg	0.01	ND
芘 (PYR)	*	mg/kg	0.01	ND
苯并(a)蒽 (BaA)	*	mg/kg	0.01	ND
屈 (CHR)	*	mg/kg	0.01	ND
苯并 (b) 荧蒽 (BbF)	*	mg/kg	0.01	ND



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苯并(b)荧蒽 (BbF)	*	mg/kg	0.01	ND
苯并 (k)荧蒽 (BkF)	*	mg/kg	0.01	ND
苯并(a)芘 (BaP)	*	mg/kg	0.01	ND
茚苯(1,2,3-c,d)芘 (IPY)	*	mg/kg	0.01	ND
二苯并(a,h)蒽(DBA)	*	mg/kg	0.01	ND
苯并(g,h,i)苝(二萘嵌苯) (BPE)	*	mg/kg	0.01	ND
苯并(j)荧蒽 (BjF)	*	mg/kg	0.01	ND
苯并 (e) 芘 (BeP)	*	mg/kg	0.01	ND

样品 001

模拟液: 95%乙醇水溶液(V/V) 迁移测试条件: 60 °C 6.0 hr(s)

<u>测试项目</u>	<u>限值</u>	<u>单位</u>	<u>MDL</u>	<u>测试结果</u>
萃取次数	-	-	-	第一次
面积/体积	-	dm²/kg	-	3.2
萘 (NAP)	*	mg/kg	0.01	ND
苊烯(ANY)	*	mg/kg	0.01	ND
苊(萘嵌戊烷) (ANA)	*	mg/kg	0.01	ND
芴 (FLU)	*	mg/kg	0.01	ND
菲 (PHE)	*	mg/kg	0.01	ND
蒽 (ANT)	*	mg/kg	0.01	ND
荧蒽 (FLT)	*	mg/kg	0.01	ND
芘 (PYR)	*	mg/kg	0.01	ND
苯并(a)蒽 (BaA)	*	mg/kg	0.01	ND
屈 (CHR)	*	mg/kg	0.01	ND
苯并(b)荧蒽 (BbF)	*	mg/kg	0.01	ND
苯并 (k)荧蒽 (BkF)	*	mg/kg	0.01	ND
苯并(a)芘 (BaP)	*	mg/kg	0.01	ND
茚苯(1,2,3-c,d)芘 (IPY)	*	mg/kg	0.01	ND
二苯并(a,h)蒽(DBA)	*	mg/kg	0.01	ND
苯并(g,h,i)花(二萘嵌苯) (BPE)	*	mg/kg	0.01	ND
苯并(j)荧蒽 (BjF)	*	mg/kg	0.01	ND

备注:

苯并(e)芘 (BeP)

- (1) 测试条件和模拟液由客户指定。
- (2) ★=不得检出。



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0.01

mg/kg

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ND



测试报告 No. NGBHG1901081002 第8页.共10页 日期: 2019年04月01日

德国食品与日用品法案(LFGB)(2005年9月1日)第30和31章节及其修正法案,欧盟委员会法规 (EU) No 10/2011(2011年1月14日) 及其修正法案以及BfR建议-重金属特定迁移量

测试方法: 参考EN13130-1:2004; 采用ICP-OES分析。

样品 001

模拟液: 3% 乙酸水溶液(W/V) 迁移测试条件: 100 ℃ 2.0 hr(s)

<u>测试项目</u>	<u>限值</u>	<u>单位</u>	<u>MDL</u>	<u>测试结果</u>
萃取次数	-	-	-	第三次
面积/体积	-	dm²/kg	-	3.2
铝 (AI)	1	mg/kg	0.1	ND
钡 (Ba)	1	mg/kg	0.25	ND
钴 (Co)	0.05	mg/kg	0.01	ND
铜 (Cu)	5	mg/kg	0.25	ND
铁 (Fe)	48	mg/kg	0.25	ND
锂 (Li)	0.6	mg/kg	0.5	ND
锰 (Mn)	0.6	mg/kg	0.25	ND
锌 (Zn)	5	mg/kg	0.5	ND
镍(Ni)	0.02	mg/kg	0.02	ND

备注:

(1) 测试条件和模拟液由客户指定。

德国食品与日用品法案(LFGB)(2005年9月1日)第30和31章节及其修正法案,以及欧洲委员会决 议CM/Res(2013)9和BfR建议-重金属特定迁移量

测试方法: 参考EN13130-1:2004, 采用ICP-MS进行分析。

样品 001:

模拟液: 0.5% (W/V)柠檬酸水溶液

迁移测试条件: 100 °C 4.0 hr(s)

测试项目	<u>限值</u>	<u>单位</u>	<u>MDL</u>	<u>1st + 2nd 迁移结果</u>
铝 (AI)	35	mg/kg	0.2	ND
锑 (Sb)	0.28	mg/kg	0.02	ND
铬(Cr)	1.75	mg/kg	0.1	ND
钴(Co)	0.14	mg/kg	0.01	ND
铜(Cu)	28	mg/kg	0.1	ND



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测试项目	限值	单位	<u>MDL</u>	<u>1st + 2nd 迁移结果</u>
铁(Fe)	280	mg/kg	0.25	ND
锰(Mn)	12.6	mg/kg	0.25	ND
钼(Mo)	0.84	mg/kg	0.02	ND
镍(Ni)	0.98	mg/kg	0.05	ND
银(Ag)	0.56	mg/kg	0.03	ND
锡(Sn)	700	mg/kg	5	ND
钒(V)	0.07	mg/kg	0.005	ND
锌(Zn)	35	mg/kg	1	ND
砷(As)	0.014	mg/kg	0.001	ND
钡(Ba)	8.4	mg/kg	0.25	ND
铍(Be)	0.07	mg/kg	0.005	ND
镉(Cd)	0.035	mg/kg	0.002	ND
铅(Pb)	0.07	mg/kg	0.005	ND
锂(Li)	0.336	mg/kg	0.02	ND
汞(Hg)	0.021	mg/kg	0.002	ND
铊(TI)	0.0007	mg/kg	0.0001	ND
测试项目	<u>限值</u>	<u>单位</u>	<u>MDL</u>	<u>3rd 迁移结果</u>
铝 (AI)	5	mg/kg	0.2	ND
锑 (Sb)	0.04	mg/kg	0.02	ND
铬(Cr)	0.25	mg/kg	0.1	ND
钴(Co)	0.02	mg/kg	0.01	ND
铜(Cu)	4	mg/kg	0.1	ND
铁(Fe)	40	mg/kg	0.25	ND
锰(Mn)	1.8	mg/kg	0.25	ND
钼(Mo)	0.12	mg/kg	0.02	ND
镍(Ni)	0.14	mg/kg	0.05	ND
银(Ag)	0.08	mg/kg	0.03	ND
锡(Sn)	100	mg/kg	5	ND
钒(V)	0.01	mg/kg	0.005	ND
锌(Zn)	5	mg/kg	1	ND
砷(As)	0.002	mg/kg	0.001	ND
钡(Ba)	1.2	mg/kg	0.25	ND
铍(Be)	0.01	mg/kg	0.005	ND
镉(Cd)	0.005	mg/kg	0.002	ND
铅(Pb)	0.01	mg/kg	0.005	ND
锂(Li)	0.048	mg/kg	0.02	ND
汞(Hg)	0.003	mg/kg	0.002	ND
铊(TI)	0.0001	mg/kg	0.0001	ND
夕 沪 ·				

备注:

- (1) 测试条件和模拟液由客户指定。
- (2) 依据欧洲理事会 CM/Res(2013)9要求, 对于重复性使用样品的限量要求是第三次迁移的结果应符合该法



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测试报告

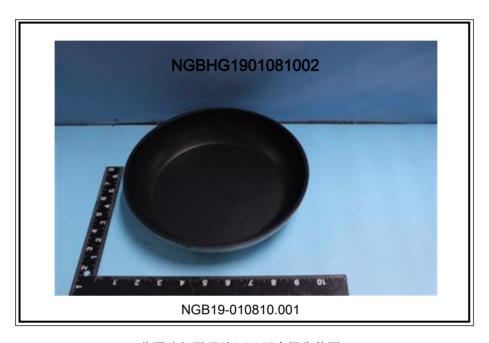
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规的特殊迁移限量(SRL)且第一次与第二次迁移结果之和不应超过7倍的法规特殊迁移限量(SRL) (3) 表面积与使用体积之比是4.6 dm²/kg.

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