

测试报告

No. NGBEC2005949902

日期: 2020年12月15日 第1页,共7页

金华大荣涂料有限公司

浙江省金华市婺城区汤溪镇迎旭路361号

以下测试之样品是由申请者所提供及确认: 耐高温油性涂料

SGS工作编号: NP20-004968 - NB
 型号: CD100
 样品接收日期: 2020年12月09日
 测试周期: 2020年12月09日 - 2020年12月15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

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-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) 及其修正法案以及BfR建议-多环芳烃(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, 以及欧洲委员决议CM/Res(2013)9以及BfR建议 -重金属特定迁移量	符合

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日期: 2020年12月15日 第2页,共7页

测试结果:

测试样品描述:

样品编号	SGS样品ID	描述	材质 (客户提供)
SN1	NGB20-059499.001	金属带黑色涂层	金属+不粘涂层

备注:

- (1) mg/dm² = 毫克每平方米
- (2) mg/kg = 毫克每千克
- (3) °C = 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	时间	温度	最大允许限值	样品001 总迁移量
3%乙酸水溶液(W/V)	4.0hr(s)	100°C	10mg/dm ²	<3.0mg/dm ²
95%乙醇	6.0hr(s)	60°C	10mg/dm ²	<3.0mg/dm ²
异辛烷	4.0hr(s)	60°C	10mg/dm ²	<3.0mg/dm ²
10%乙醇水溶液(V/V)	4.0hr(s)	100°C	10mg/dm ²	<3.0mg/dm ²

备注:

- (1) 水性食品模拟液的分析允差是2 mg/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。
- (4) 测试数据是第三次迁移的结果。

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-MS分析。



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样品 001

模拟液: 3%乙酸水溶液(W/V)
 迁移测试条件: 100 °C 2 hr(s)

测试项目	限值	单位	MDL	测试结果
萃取次数	-	-	-	第三次
面积/体积	-	dm ² /kg	-	4.0
可迁移六价铬	★	mg/dm ²	0.004	ND*
可迁移三价铬	0.02	mg/dm ²	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”

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	限值	单位	MDL	测试结果
萃取次数	-	-	-	第一次
面积/体积	-	dm ² /kg	-	4.0
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
蒽 (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



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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)芘(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)

测试项目	限值	单位	MDL	测试结果
萃取次数	-	-	-	第一次
面积/体积	-	dm ² /kg	-	4.0
萘 (NAP)	★	mg/kg	0.01	ND
萘烯(ANY)	★	mg/kg	0.01	ND
芘(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
蒎 (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)芘(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

备注:

- (1) ★=不得检出。
- (2) 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, 以及欧洲委员决议CM/Res(2013)9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-MS进行分析。



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日期: 2020年12月15日 第5页,共7页

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 2.0 hr(s)

测试项目	限值	单位	MDL	1st + 2nd 迁移结果
铝 (Al)	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
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 (Tl)	0.0007	mg/kg	0.0001	ND

测试项目	限值	单位	MDL	3rd 迁移结果
铝 (Al)	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



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测试项目	限值	单位	MDL	3rd 迁移结果
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(Tl)	0.0001	mg/kg	0.0001	ND

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4.5 dm²/kg.

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检测报告仅用于客户科研、教学、内部质量控制、产品研发等目的, 仅供内部参考。



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