

测试报告

No. NGBHG1601509108 A01

日期: 2016年06月01日 第1页,共10页

临海市绿邦水性涂料有限公司
临海市古城街道松一村1-38号

此报告替代原来编号为NGBHG1601509104日期为2016/05/31的报告

以下测试之样品是由申请者所提供及确认: 水性漆

SGS工作编号: NBHL1603002521OT - NB
 货号: LV-A170
 制造商: 临海市绿邦水性涂料有限公司
 供应商: 临海市绿邦水性涂料有限公司
 原产国: 中国浙江临海
 款号: LV-A170
 样品接收日期: 2016年04月19日
 测试周期: 2016年04月19日 - 2016年05月06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
欧盟玩具指令2009/48/EC协调标准 EN71-3:2013+A1:2014- 元素迁移 (针对第三类:可以刮取玩具材料)	符合
1907/2006/EC REACH 附录XVII第23条及其修正指令(EU) No 835/2012 和(EU) No 494/2011 - 镉(Cd)	符合
1907/2006/EC Reach 附录XVII的修正指令——552/2009/EC 第51和52条(前身为2005/84/EC)- 邻苯二甲酸盐(或酯)含量	符合
多环芳香烃(PAHs)	见测试结果

通标标准技术服务有限公司宁波分公司
授权签名



Iris Xiao 肖玲艳
批准签署人



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测试结果:

测试样品描述:

样品编号	SGS样品ID	描述
SN1	NGB16-015091.001	白色涂层+绿色涂层+红色涂层
SN2	NGB16-015091.002	深蓝色涂层+黄色涂层
SN3	NGB16-015091.004	白色涂层
SN4	NGB16-015091.005	绿色涂层
SN5	NGB16-015091.006	红色涂层
SN6	NGB16-015091.007	深蓝色涂层
SN7	NGB16-015091.008	黄色涂层
SN8	NGB16-015091.009	黑色涂层

备注:

- (1) 1 mg/kg = 0.0001%
- (2) MDL = 方法检测限
- (3) ND = 未检出 (< MDL)
- (4) "-" = 未规定

欧盟玩具指令2009/48/EC协调标准 EN71-3:2013+A1:2014- 元素迁移 (针对第三类:可以刮取玩具材料)

测试方法: 参照EN 71-3:2013+A1:2014, 采用ICP-OES进行分析
可溶性六价铬采用IC-ICP-MS进行分析.

测试项目	限值	单位	MDL	004	005	006
可溶性六价铬 (CrVI)	0.2	mg/kg	0.18	ND	ND	ND
可溶性铅 (Pb)	160	mg/kg	10	ND	ND	ND
可溶性锑 (Sb)	560	mg/kg	10	ND	ND	ND
可溶性砷 (As)	47	mg/kg	10	ND	ND	ND
可溶性钡 (Ba)	18750	mg/kg	50	ND	ND	ND
可溶性镉 (Cd)	17	mg/kg	5	ND	ND	ND
可溶性三价铬 (CrIII)	460	mg/kg	5	ND	ND	ND
可溶性汞 (Hg)	94	mg/kg	10	ND	ND	ND
可溶性硒 (Se)	460	mg/kg	10	ND	ND	ND
可溶性硼 (B)	15000	mg/kg	50	ND	ND	ND
可溶性钴 (Co)	130	mg/kg	10	ND	ND	ND
可溶性锰 (Mn)	15000	mg/kg	50	ND	ND	ND
可溶性锶 (Sr)	56000	mg/kg	50	ND	ND	ND
可溶性锡 (Sn)	180000	mg/kg	4.9	ND	ND	ND
可溶性锌 (Zn)	46000	mg/kg	50	ND	ND	ND



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测试项目	限值	单位	MDL	004	005	006
可溶性铜 (Cu)	7700	mg/kg	50	ND	ND	ND
可溶性铝 (Al)	70000	mg/kg	50	493	ND	ND
可溶性镍 (Ni)	930	mg/kg	10	ND	ND	ND
可溶性有机锡*	12	mg/kg	-	ND	ND	ND

测试项目	限值	单位	MDL	007	008	009
可溶性六价铬 (CrVI)	0.2	mg/kg	0.18	ND	ND	ND
可溶性铅 (Pb)	160	mg/kg	10	ND	ND	ND
可溶性锑 (Sb)	560	mg/kg	10	ND	ND	ND
可溶性砷 (As)	47	mg/kg	10	ND	ND	ND
可溶性钡 (Ba)	18750	mg/kg	50	ND	ND	ND
可溶性镉 (Cd)	17	mg/kg	5	ND	ND	ND
可溶性三价铬 (CrIII)	460	mg/kg	5	ND	ND	ND
可溶性汞 (Hg)	94	mg/kg	10	ND	ND	ND
可溶性硒 (Se)	460	mg/kg	10	ND	ND	ND
可溶性硼 (B)	15000	mg/kg	50	ND	ND	ND
可溶性钴 (Co)	130	mg/kg	10	ND	ND	ND
可溶性锰 (Mn)	15000	mg/kg	50	ND	ND	ND
可溶性锶 (Sr)	56000	mg/kg	50	ND	ND	ND
可溶性锡 (Sn)	180000	mg/kg	4.9	ND	ND	ND
可溶性锌 (Zn)	46000	mg/kg	50	ND	ND	ND
可溶性铜 (Cu)	7700	mg/kg	50	ND	ND	ND
可溶性铝 (Al)	70000	mg/kg	50	ND	ND	ND
可溶性镍 (Ni)	930	mg/kg	10	ND	ND	ND
可溶性有机锡*	12	mg/kg	-	ND	ND	ND

备注:

(1) 对于样品004~008, 溶出总铬含量没有超过 EN71-3: 2013+A1:2014 中相应限量, 根据EN 71-3:2013+A1:2014 的要求, 不需要额外分别测试溶出铬(III)和溶出铬(VI)的含量。

(2) *可溶性锡转化为可溶性有机锡后的含量没有超过 EN71-3: 2013+A1:2014 中相应限量, 根据EN 71-3: 2013+A1:2014的要求, 不需要额外测试可溶性有机锡的含量。

1907/2006/EC REACH附录XVII第23条及其修正指令(EU) No 835/2012和(EU) No 494/2011 - 镉(Cd)

测试方法: 参照EN 1122:2001 方法B测定, 采用ICP-OES进行分析。



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测试项目	限值	单位	MDL	001	002
镉(Cd)	0.1	%	0.0005	ND	ND
结论				符合	符合

1907/2006/EC Reach附录XVII的修正指令——552/2009/EC第51和52条(前身为2005/84/EC)-邻苯二甲酸盐(或酯)含量

测试方法: 参照EN14372: 2004的方法, 采用GC-MS进行分析.

测试项目	CAS NO.	限值	单位	MDL	001	002
玩具或儿童护理品						
邻苯二甲酸二丁酯 (DBP)	84-74-2	-	%	0.003	ND	ND
邻苯二甲酸丁苄酯 (BBP)	85-68-7	-	%	0.003	ND	ND
邻苯二甲酸二(2-乙基己基)酯 (DEHP)	117-81-7	-	%	0.003	ND	ND
合计(DBP+BBP+DEHP)		0.1	%	-	ND	ND

与嘴部接触的玩具或儿童护理品

邻苯二甲酸二异壬酯 (DINP)	28553-12-0/ 68515-48-0	-	%	0.010	ND	ND
邻苯二甲酸二正辛酯 (DNOP)	117-84-0	-	%	0.003	ND	ND
邻苯二甲酸二异癸酯 (DIDP)	26761-40-0/ 68515-49-1	-	%	0.010	ND	ND
合计(DINP+DNOP+DIDP)		0.1	%	-	ND	ND

结论 符合 符合

备注:

- (1) 欧盟采用1907/2006/EC Reach 附录XVII的修正指令---552/2009/EC 第51和52条(前身为2005/84/EC),
 - (1-1) 该指令禁止质量百分比超过0.1%的DBP, BBP和DEHP 用在儿童物品的任何玩具中.
 - (1-2) 该指令禁止质量百分比超过0.1%的DINP, DNOP和DIDP用在儿童可能吞咽的任何玩具中.
- 详细信息请参见Regulation (EC) No 552/2009

多环芳香烃(PAHs)

测试方法: 参考AfPS GS 2014:01 PAK 方法测试, 采用 GC-MS 进行分析.



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测试项目	单位	MDL	001
萘(ANY)	mg/kg	0.1	ND
萘(萘嵌戊烷)(ANA)	mg/kg	0.1	ND
芴(FLU)	mg/kg	0.1	ND
菲(PHE)	mg/kg	0.1	0.2
蒽(ANT)	mg/kg	0.1	ND
荧蒽(FLT)	mg/kg	0.1	ND
芘(PYR)	mg/kg	0.1	ND
苯并(a)芘 (BaP)	mg/kg	0.1	ND
苯并(e)芘(BeP)	mg/kg	0.1	ND
苯并(a)蒽(BaA)	mg/kg	0.1	ND
苯并(b)荧蒽(BbF)	mg/kg	0.1	ND
苯并(j)荧蒽(BjF)	mg/kg	0.1	ND
苯并(k)荧蒽 (BkF)	mg/kg	0.1	ND
屈(CHR)	mg/kg	0.1	ND
二苯并(a,h)蒽(DBA)	mg/kg	0.1	ND
苯并(g,h,i)芘(二萘嵌苯)(BPE)	mg/kg	0.1	ND
茚并(1,2,3-c,d)芘(IPY)	mg/kg	0.1	ND
7项多环芳香烃总和[萘(ANY), 萘(萘嵌戊烷) (ANA), 芴 (FLU), 菲 (PHE), 芘 (PYR), 蒽 (ANT), 荧蒽 (FLT)]	mg/kg	-	0.2
萘(NAP)	mg/kg	0.1	0.4
18项多环芳香烃总和	mg/kg	-	0.6

测试项目	单位	MDL	002
萘(ANY)	mg/kg	0.1	0.2
萘(萘嵌戊烷)(ANA)	mg/kg	0.1	ND
芴(FLU)	mg/kg	0.1	0.2
菲(PHE)	mg/kg	0.1	0.4
蒽(ANT)	mg/kg	0.1	ND
荧蒽(FLT)	mg/kg	0.1	ND
芘(PYR)	mg/kg	0.1	0.3
苯并(a)芘 (BaP)	mg/kg	0.1	ND
苯并(e)芘(BeP)	mg/kg	0.1	ND
苯并(a)蒽(BaA)	mg/kg	0.1	ND
苯并(b)荧蒽(BbF)	mg/kg	0.1	ND
苯并(j)荧蒽(BjF)	mg/kg	0.1	ND
苯并(k)荧蒽 (BkF)	mg/kg	0.1	ND
屈(CHR)	mg/kg	0.1	ND
二苯并(a,h)蒽(DBA)	mg/kg	0.1	ND
苯并(g,h,i)芘(二萘嵌苯)(BPE)	mg/kg	0.1	0.2
茚并(1,2,3-c,d)芘(IPY)	mg/kg	0.1	ND



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测试项目

7项多环芳香烃总和[萘烯(ANY), 萘(蒽嵌戊烷) (ANA), 芴 (FLU), 菲 (PHE), 芘 (PYR), 蒽 (ANT), 荧蒽 (FLT)]
 萘(NAP)
 18项多环芳香烃总和

单位	MDL	002
mg/kg	-	1.1
mg/kg	0.1	1.3
mg/kg	-	2.6

AIPS(德国产品安全委员会):GS 认证对多环芳香烃的要求

参数	1 类		2 类		3 类	
	设计意图为放入口中的材料或者玩具上与皮肤接触的材料(接触时间大于30秒).		未在 1 类规定中涵盖的材料,且可能与皮肤接触时间大于 30 秒的材料(长时间接触皮肤)或频繁接触皮肤.		未在 1 和 2 类规定中涵盖的材料,且可能与皮肤接触的少于 30 秒的材料(短期接触皮肤)	
		2009/48/EC 中适用的玩具	产品安全法涉及的其他产品	2009/48/EC中适用的玩具	产品安全法涉及的其他产品	
苯并(a)芘 (BaP) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1	
苯并(e)芘 (BeP) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1	
苯并(a)蒽 (BaA) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1	
苯并(b)荧蒽 (BbF) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1	
苯并(j)荧蒽 (BjF) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1	
苯并(k)荧蒽 mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1	
屈 (CHR) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1	
二苯并(a,h)蒽 (DBA)mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1	
苯并(g,h,i)花(二蒽嵌苯) (BPE)n mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1	
茚并(1,2,3-c,d)芘 (IPY) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1	
萘烯(ANY), 萘(蒽嵌戊烷) (ANA), 芴 (FLU), 菲 (PHE), 芘 (PYR), 蒽 (ANT), 荧蒽 (FLT)之和 mg/kg	< 1 (总和)	< 5 (总和)	< 10 (总和)	< 20 (总和)	< 50 (总和)	
萘 (NAP) mg/kg	< 1	< 2		< 10		
18 PAH之和	<1	< 5	< 10	< 20	< 50	

备注:

(1) 根据客户要求,样品进行组合测试,测试结果为整体结果.



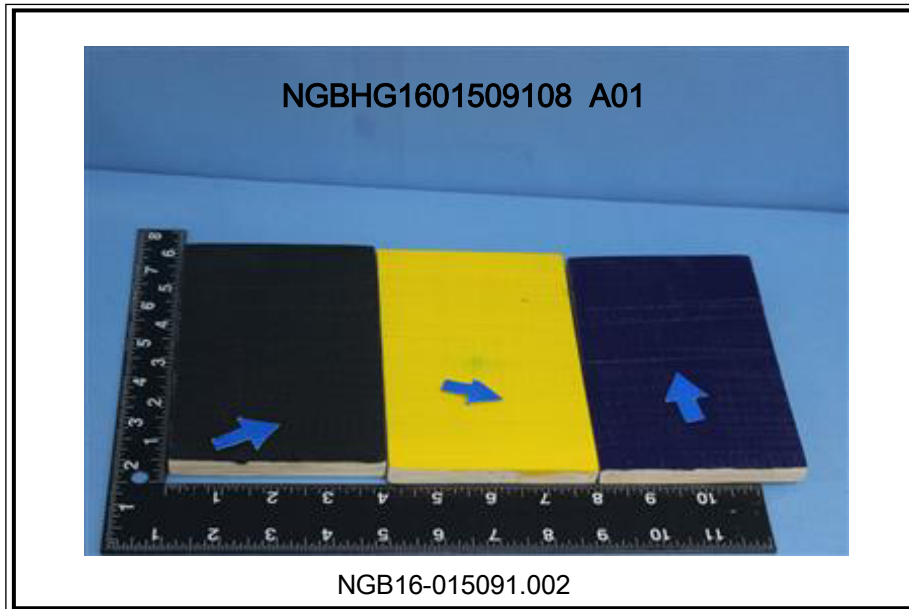
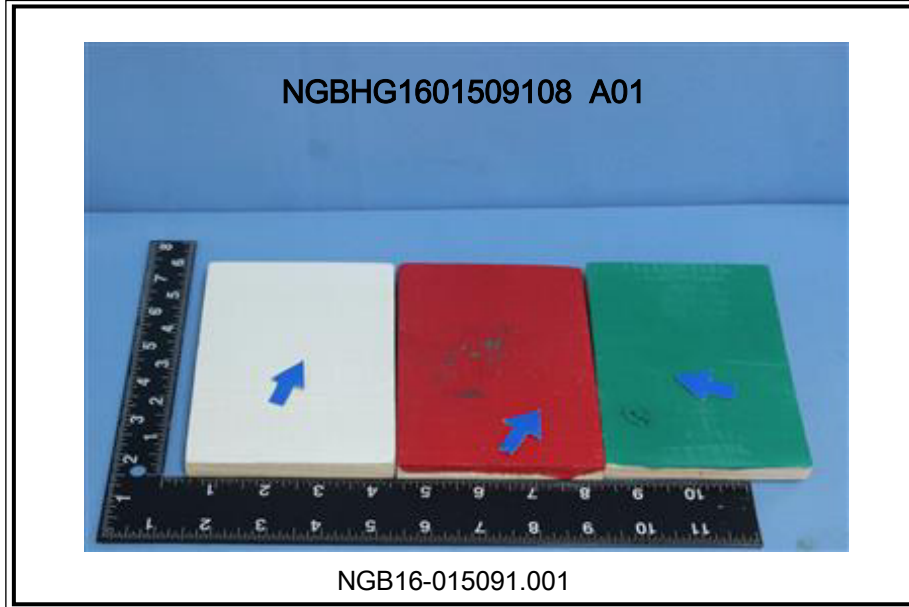
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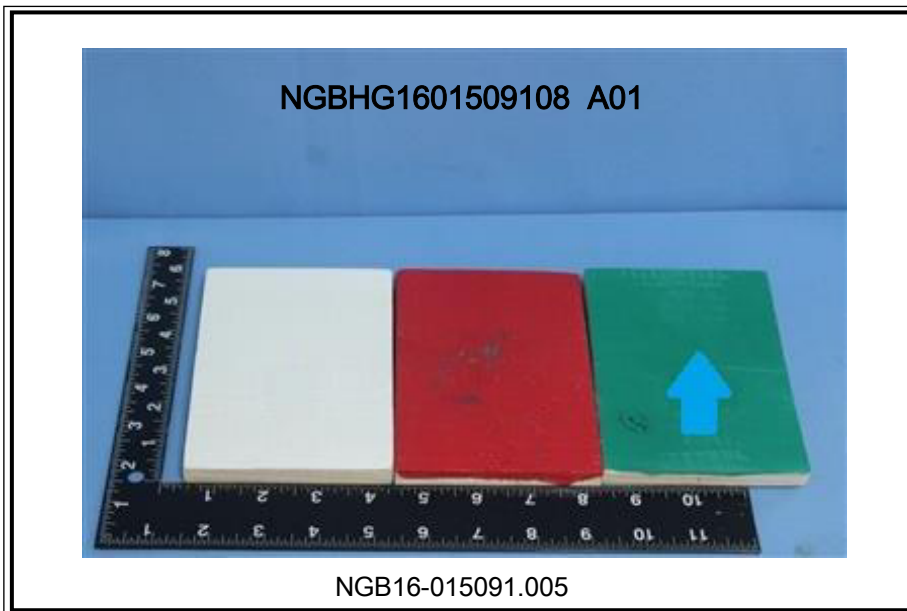
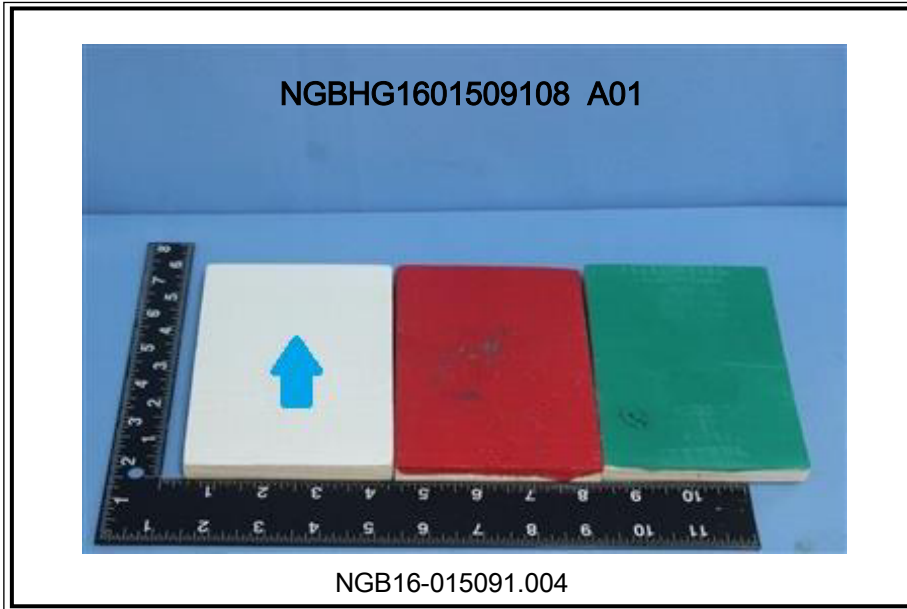
1-6/F West of Building 4, Lingyun Industry Park, No.1177 Lingyun Road, Ningbo National Hi-Tech Zone, Ningbo, Zhejiang, China 315040 t E&E (86-574)89070249 t ML (86-574)89070242 www.sgs.com.cn
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样品照片:



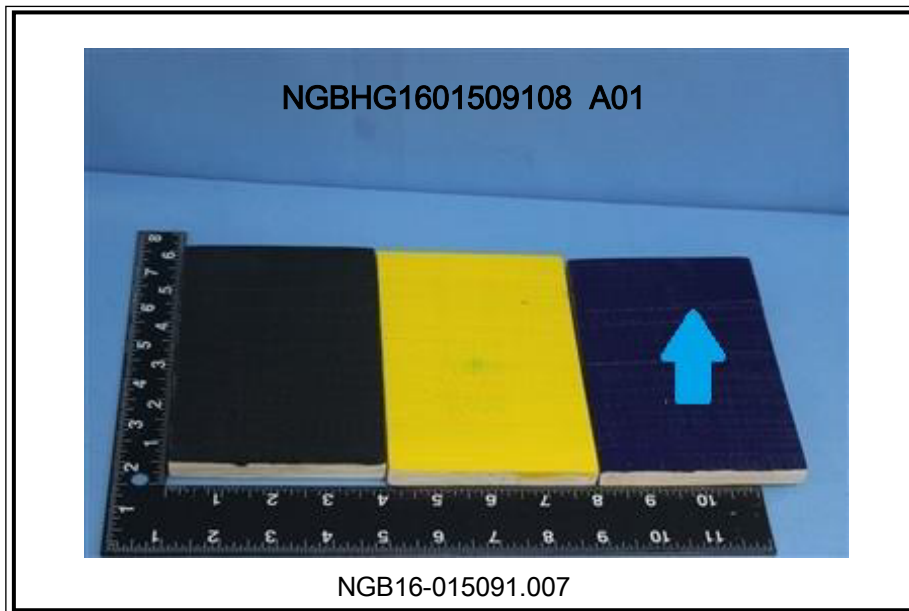
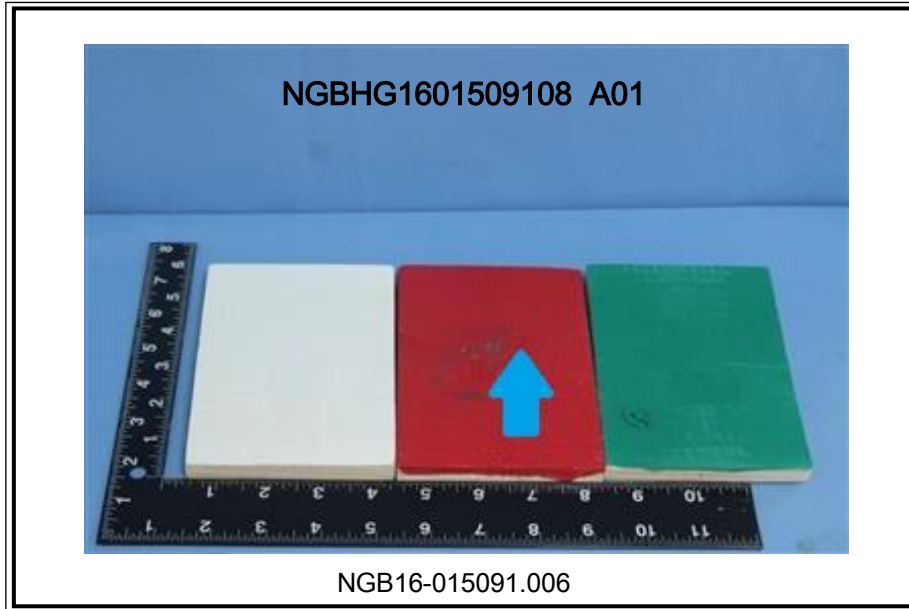
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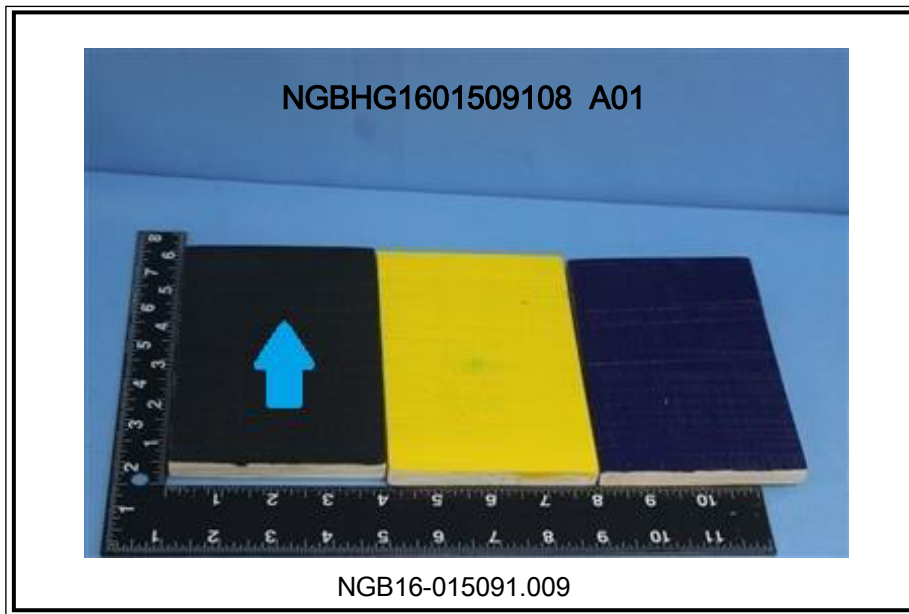
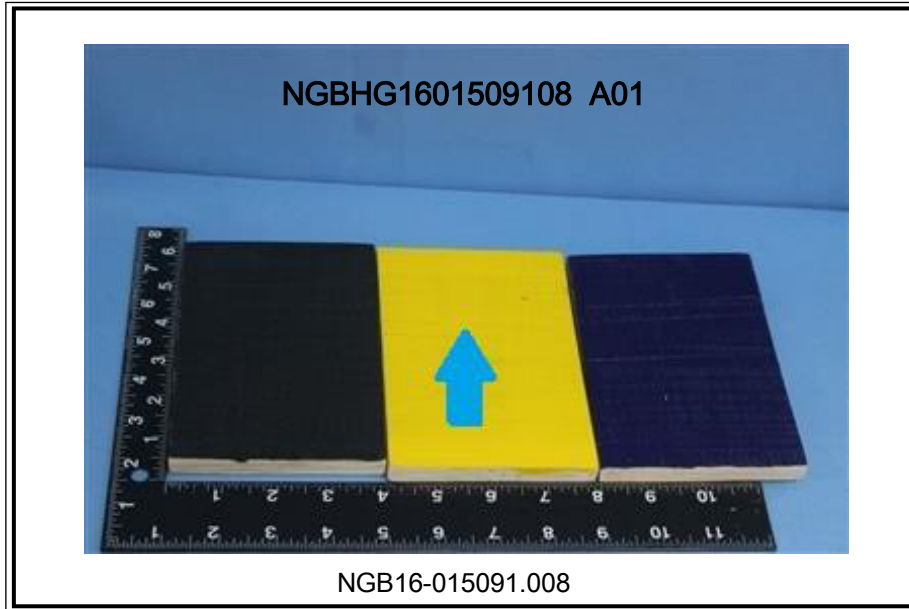
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