

No. CANAUTO1520015601 日期: 2015年12月02日 第1页,共13页

深圳市帝源新材料科技有限公司 深圳市光明新区公明办事处合水口社区下朗工业区第37栋1;2楼

以下测试之样品是由申请者所提供及确认: 德标 105 度汽车线用 PVC 塑胶料

SGS 工作编号 : GZAT1511010981NM

主机厂:上汽通用五菱汽车股份有限公司

 车型代码
 : N200S

 测试阶段
 : OTS 认可

零件号 : 105 度 PVC 塑胶料

材质 : PVC 塑胶

生产厂家:深圳市帝源新材料科技有限公司

购买商 : 柳州市双飞汽车电器配件制造有限公司 直接供应商名称: : 柳州市双飞汽车电器配件制造有限公司

生产日期: 2015年11月17日包装日期: 2015年11月17日样品寄出日期: 2015年11月17日收包裹日期: 2015年11月18日收样日期: 2015年11月19日

测试周期 : 2015年11月19日 - 2015年12月02日

测试要求:根据客户选择测试。

测试方法: 见后续页。测试结果: 见后续页。

通标标准技术服务有限公司广州分公司 授权签名

張 治午

Trophy Zhang 张浩华 批准签署人

备注: 根据客户申请, SGS 出具了此中文报告, 英文版本可根据客户要求提供。 (The Chinese test report is issued according to the applicant's request. The English version is available from SGS if further needed.)

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报告声明:

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生产商的声明或注解:

无

结果总结:

样品 001

序号	测试项目	测试方法	结论
1.	气味	参考 GMW3205-2011 标准和客户要求	不合格
2.	雾化	参考 GMW3235-2011 方法 B-重量法	合格
3.	醛酮	参考 GMW15635-2012	合格
4.	VOC&SVOC	参考 GMW15634-2009	合格

备注: 判定依据: BT-SGMWJ 0872-2013

合格:达到标准要求 不合格:未达到标准要求

不下结论: 只提供结果, 不下判定



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测试结果:

测试部件外观描述:

试样序号 SGS 样品 ID

SN1 CAN15-200156.001 "德标 105 度汽车线用 PVC 塑胶料"

描述

备注:

(1) 1mg/kg=1ppm=0.0001%

(2) MDL = 方法检测限

(3) ND = 未检测出 (<MDL)

(4) "-" = 未规定

1. 气味特征

样品 001:

试验方法:参考 GMW3205-2011 标准和客户要求

测试样取样规则编码:-测试容器体积: 4L 取样体积 V: 零件质量 P: -

取样质量 T: 40g 储存条件: B

	评分级别
1	5.0
2	5.0
3	5.0
4	5.0
5	5.0
6	5.0
Average*	5.0
要求 结论	≥6.0
结论	不合格

注: *根据 GMW3205-2011, 平均值的计算是去掉最高和最低评分级别后,剩余的 4个评分级别的算术平均数。



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备注:

1) 评分级别:

评分级别	所有材料的描述,除了皮革	皮革材料的描述
10 级	无味	无味
9级	几乎无味	几乎无味
8级	轻微的气味	轻微的气味
7级	明显有味,但不反感	明显有味,但是皮革气味
6 级	味道非常明显,但不反感,可容忍的	典型的皮革气味
5级	可容忍边界点	皮革气味
4级	令人反感	强烈的皮革气味
3 级	令人很反感	令人讨厌的皮革气味
2级	非常强烈的反感	非常严重的皮革气味
1级	无法忍受的	无法忍受的

2) 测试样取样规则编码:

非朔料件

3F3E/1411			
编码	测试样体积	测试容器体积	样品举例
1	1	20	座椅靠垫发泡材料,座椅头枕发泡材料
	,		地毯, 行李箱地毯, 顶衬, 后衣帽架, 织物面料,
2	1	50	毛毡
3	1	100	真皮,人造革,遮阳板,复合材料,橡胶材料
4	1	500	嵌板上的部件
5	1	1000	小部件如扬声器面板
6	1	根据规格	与材料工程师沟通后决定

塑料件

<u> </u>			
编码	零件质量 P	取样质量 T	举例(测试容器体积 V=4L)
7	P<500g	(P*V)/250	4g≤T<8g
8	500g <p<1000g< th=""><th>(3P/1000+0.5)*V</th><th>8g<t<14g< th=""></t<14g<></th></p<1000g<>	(3P/1000+0.5)*V	8g <t<14g< th=""></t<14g<>
9	1000g <p<3000g< th=""><th>(P/500+1.5)*V</th><th>14g<t<30g< th=""></t<30g<></th></p<3000g<>	(P/500+1.5)*V	14g <t<30g< th=""></t<30g<>
10	3000g <p< th=""><th>(P/1000+4.5)*V</th><th>30g<t≤40g< th=""></t≤40g<></th></p<>	(P/1000+4.5)*V	30g <t≤40g< th=""></t≤40g<>

3) 储存条件:

- / 1.11 14 24 1 1 1		
类型	温度	储存条件
Α	70 ± 2°C	(24±0.5)h (湿法)
В	70 ± 2°C	(24±0.5)h (干法)
С	105 ± 2℃	(24±0.5)h (高温)



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2. 雾化值

测试方法: 参考 GMW3235-2011 方法 B-重量法,用雾化仪测试

取样尺寸: 直径 8cm 的圆片。

油浴温度: (100) ℃ 测试周期: (18) h

样品 001:

	单位	<u>MDL</u>	雾化值(放置 24 小时后的重量)	
1	mg	0.20	0.55	
2	mg	0.20	0.52	
3	mg	0.20	0.56	
平均值	mg	0.20	0.54	
限值	mg		2	
结论	合格			

3. 醛酮类:

测试方法: 参考 GMW15635-2012. 采用 HPLC 进行分析.

测试项目	<u>单位</u>	<u>MDL</u>	<u>限值</u>	<u>001</u>		
甲醛	μg/g	0.35	5	ND		
乙醛	μg/g	0.35	0.5	ND		
丙烯醛	μg/g	0.35	0.5	ND		
丙酮	μg/g	0.35	-	ND		
结论		合格				

4. 挥发性化合物和半挥发性化合物

测试方法: 参考 GMW15634-2009. 采用 TDS-GC-MS 进行分析.

<u>测试项目</u>		<u>单位</u>	<u>限值</u>	<u>001</u>
VOC 值(C ₅ ~C ₂₀)	总挥发量	µg/g	-	72
VOC 但(U5~U ₂₀)	第二个值	µg/g	-	70
SVOC 值(C ₁₆ ~C ₃₂)	总挥发量	μg/g	-	233
结论			-	

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单项化学物限值要求表:

样品 001

<u>物质</u>	CAS 号	限值要求 μg/g	VOC 结果	SVOC 结果
苯	71-43-2	≤1 ND		-
甲苯	108-88-3	≤8	ND	-
乙苯	100-41-4	≤8	ND	-
二甲苯	1330-20-7	≤8	ND	-
苯乙烯	100-42-5	≤8	ND	-
结	论		合格	

备注:

- (1) $MDL=1\mu g/g$
- (2) 测试结果是根据 GMW 15634 的要求基于甲苯的 TIC 线性回归曲线进行半定量分析。

物质分析:

测试方法: 参考 GMW15634-2009. 采用 TDS-GC-MS 进行分析.

样品 001 (VOC):

Retention Time(min.)	Substance	CAS-NO.	Area(%)	μg/g	Classification
22.85	1-Hexanol, 2-ethyl	000104-76-7	16.7	12	
40.13	2-Propenoic acid, oxybis(methyl-2,1- ethanediyl) ester	057472-68-1	9.8	7	
37.86	?,, 240, 128, 110, 99, 85, 71, 57, 43,		5.4	4	
37.53	?,, 240, 128, 110, 99, 85, 71, 57, 43,		4.7	3	
41.45	Octadecane	000593-45-3	4.6	3	
38.79	Hexadecane	000544-76-3	3.7	3	
43.64	Eicosane	000112-95-8	3.0	2	
40.20	Heptadecane	000629-78-7	2.6	2	
36.69	1-Dodecanol	000112-53-8	2.5	2	
35.16	Tetradecane	000629-59-4	2.5	2	
24.64	Ethanone, 1-phenyl-	000098-86-2	2.2	2	
27.96	Benzene, 1,3-bis(1- methylethyl)-	000099-62-7	1.8	1	
42.59	Nonadecane	000629-92-5	1.7	1	
32.97	?,, 178, 163, 145, 121, 105, 91, 77, 59, 43,		1.6	1	
28.71	? Benzene, 1,3-bis(1- methylethyl)-	000099-62-7	1.5	1	



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Retention Time(min.)	Substance	CAS-NO.	Area(%)	μg/g	Classification
32.56	Tridecane	000629-50-5	1.4	1	
33.80	?,, 178, 163, 145, 121, 105, 91, 77, 59, 43,		1.3	1	
	sum of individual substances (<1ppm) above the baseline		32.9	24	

Sum of the identified or assigned substances	100.0	72
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None of the substances identified (> 1 ppm) in the course of the library search and named by CAS-No. is listed in the current IFA-Online-KMR-List with new categories (October 2013) in the categories "carcinogenic 1A, 1B, 2", "mutagenic 1A, 1B, 2", "reproductively hazardous $R_{\text{E}}/R_{\text{F}}$ 1A, 1B, 2".

备注:

- (1) $MDL=1\mu g/g$
- (2) 定性结果基于 NIST 谱库/Wiley 谱库检索.
- (3) 测试结果是根据 GMW 15634 的要求基于甲苯的 TIC 线性回归曲线进行半定量分析。

样品 001 (SVOC):

Retention Time(min.)	Substance	CAS-NO.	Area(%)	μg/g	Classification
18.98	Hexadecanoic acid, butyl ester + 1-Docosene	000111-06-8 001599-67-3	32.9	77	
20.70	Octadecanoic acid, buty ester + alkene, alkanol, cycloalkane	000123-95-5	10.4	24	
23.38	?,, 279, 261, 167, 149, 121, 104, 70, 1,3- Benzenedicarboxylic acid, di-iso-octyl-ester		7.6	18	
14.21	2-Propenoic acid, oxybis(methyl-2,1- ethanediyl) ester	057472-68-1	7.2	17	
18.45	alkene, alkanol, cycloalkane + Octadecanoic acid, methyl ester + 1,3-Propanedione, 1,3- diphenyl-	000112-61-8 000120-46-7	5.2	12	
17.73	?,, 271, 241, 159, 128, 113,		4.0	9	
19.08	Docosane	000629-97-0	3.7	9	
17.25	Eicosane	000112-95-8	3.7	9	
23.98	?,, 279, 261, 167, 149, 121, 104, 70, 1,3-		3.0	7	



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Retention Time(min.)	Substance	CAS-NO.	Area(%)	μg/g	Classification
	Benzenedicarboxylic acid, di-iso-octyl-ester				
15.29	Octadecane	000593-45-3	2.7	6	
20.78	Tetracosane	000646-31-1	2.3	5	
18.18	Heneicosane	000629-94-7	1.8	4	
14.26	?,, 143, 113, 71, + Heptadecane	000629-78-7	1.5	3	
13.24	Hexadecane	000544-76-3	1.5	3	
16.28	Nonadecane	000629-92-5	1.4	3	
19.94	alkene, alkanol, cycloalkane + Tricosane	000638-67-5	1.3	3	
16.55	Hexadecanoic acid, methyl ester	000112-39-0	0.7	2	
22.41	Hexacosane	000630-01-3	0.7	2	
21.58	Pentacosane	000629-99-2	0.6	1	
13.34	?,, 165, 140, 125, + Hexanoic acid, 2-ethyl-, 2- ethylhexyl ester (~0.9 ppm)	007425-14-1	0.4	1	R _E 2
	sum of individual substances (<1ppm) above the baseline		7.5	17	

Sum of the identified or assigned substances	100.0	233
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Remark:	$R_{\text{E}}2$ None of the remaining substances identified (> 1 ppm) in the course of the library search and named by CAS-No. is listed in the current IFA-Online-KMR-List with new categories (October 2013) in the categories "carcinogenic 1A, 1B, 2", "mutagenic 1A, 1B, 2", "reproductively hazardous $R_{\text{E}}/R_{\text{F}}$ 1A, 1B, 2".
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备注:

- (1) $MDL=1\mu g/g$
- (2) 定性结果基于 NIST 谱库/Wiley 谱库检索.
- (3) 测试结果是根据 GMW 15634 的要求基于正十六烷的 TIC 线性回归曲线进行半定量分析。



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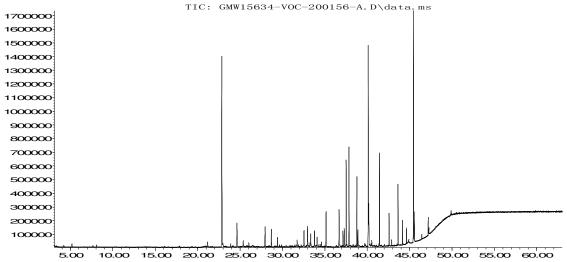


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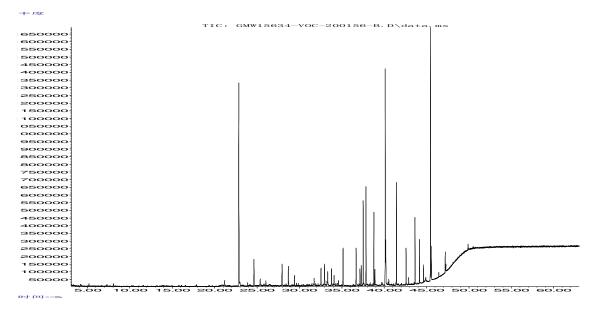
谱图:

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样品 001 SVOC:

丰度 GMW15634-FOG-200156-B. D\data. ms 1.9e+07 1.8e+07 1.6e+07 1.5e+07 1.4e+07 1.3e+07 1.2e+07 1e+07 3000000 3000000 ,000000 3000000 5000000 1000000 3000000 2000000 000000 30.00 35.00 40.00 时间-->



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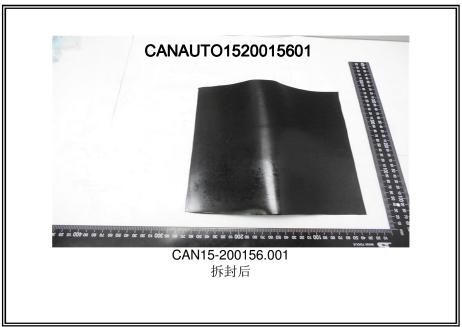
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