设备信息：

设备	型号	设备编号	校准日期	下次校准日期
高低温万能材料试验机	2020	GZMR-PL-E264	2022-06-22	2023-06-21

4.测试项目：弯曲测试

样品描述：塑料粒料

测试方法：GB/T 9341-2008

测试条件：

试样：80mm×9.91mm×4.00mm

测试速度：2mm/min

跨距：64mm

实验室环境条件：23±2℃，50±5%RH

测试结果：

测试项目	测试结果
弯曲强度	83.4MPa
弯曲模量	3140MPa

备注：测试试样为注塑成型。

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测试照片：

测试中

测试前

测试后

设备信息：

设备	型号	设备编号	校准日期	下次校准日期
电子万能材料试验机	Z1.0	GZMR-PL-E252	2021-12-24	2022-12-23

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5.测试项目：拉伸模量

样品描述：塑料粒料

测试方法：GB/T 1040.1-2018 & GB/T 1040.2-2006

测试条件：

试样：1A 型

试样厚度：4.03mm

测试速度：1 mm/min

标距：75 mm

初始夹具间距：115 mm

实验室环境条件：(23 ± 2) ℃，(50 ± 5) % RH

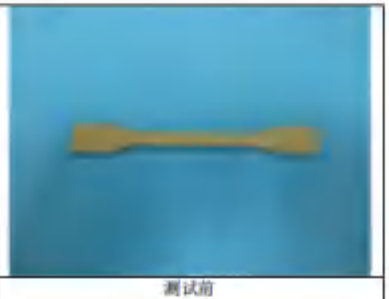
测试结果：

测试项目	测试结果
拉伸模量	3250MPa

备注：测试试样为注塑成型。

测试照片：

测试中



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设备信息：

设备	型号	设备编号	校准日期	下次校准日期
高低温万能材料试验机	Z020	GZMR-PL-E264	2022-06-22	2023-06-21

6.测试项目：简支梁冲击强度

样品描述：酸料粒料

测试方法：GB/T 1043.1-2008

测试条件：

缺口：

试样：GB/T 1043.1/1eA (缺口制备：机械加工)

试样厚度：3.99mm

摆锤能量：1J

冲击速度：2.90m/s

跨距：62mm

无缺口：

试样：GB/T 1043.1/1eU

试样厚度：3.99mm

摆锤能量：4J

冲击速度：2.90m/s

跨距：62mm

实验室环境条件：23±2℃，50±5%RH

测试结果：

测试项目	测试结果
简支梁缺口冲击强度	1.5kJ/m² C (完全破坏)
简支梁无缺口冲击强度	11kJ/m²

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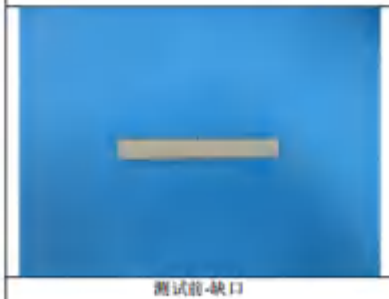
	C (完全破坏)

备注：测试试样为注塑成型。

测试照片：

测试中



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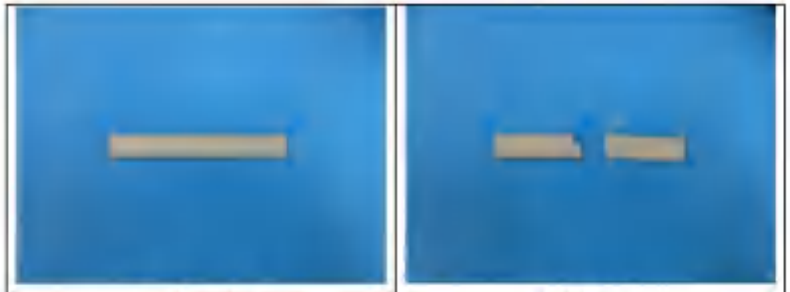

测试前-无缺口	测试后-无缺口

设备信息：

设备	型号	设备编号	校准日期	下次校准日期
冲击试验仪	HIT50P	GZMR-PL-E283	2022-07-20	2023-07-19

7.测试项目：悬臂梁冲击强度

样品描述：塑料粒料

测试方法：GB/T 1843-2008

测试条件：

缺口：

试样：GB/T 1843/A (缺口制备：机械加工)

试样厚度：3.99mm

摆锤能量：1J

冲击速度：3.46m/s

无缺口：

试样：GB/T 1843/U

试样厚度：3.98mm

摆锤能量：2.75J

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冲击速度：3.46m/s

实验室环境条件：23±2℃，50±5%RH

测试结果：

测试项目	测试结果
悬臂梁缺口冲击强度	1.8kJ/m^2 C (完全破坏)
悬臂梁无缺口冲击强度	11kJ/m^2 C (完全破坏)

备注：测试试样为注塑成型。

测试照片：

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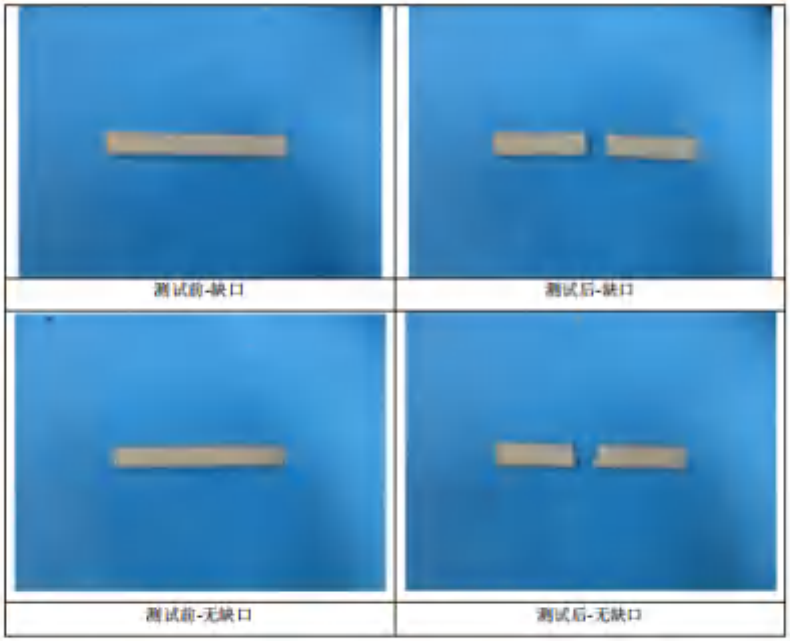

测试前-缺口	测试后-缺口
测试前-无缺口	测试后-无缺口

设备信息：

设备	型号	设备编号	校准日期	下次校准日期
冲击试验仪	HIT50P	GZMR-PL-E283	2022-07-20	2023-07-19

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8.测试项目：玻璃化转变温度

样品描述：塑料粒料

测试方法：GB/T 19466.2-2004，分析仪器为DSC。

测试条件：

样品容器类型：Al；

吹扫气体流速(氮气：99.999%)：50ml/min；

平衡在0℃；

以20℃/min升温到150℃，保持温度5min；

急速降温到0℃，保持温度15min；

以20℃/min再次升温到150℃。

测试结果：

测试项目	第一次升温扫描 (DSC曲线见图1)	第二次升温扫描 (DSC曲线见图2)
外推起始温度 T_{eig}	74℃	在0~150℃的温度范围内未检出玻璃化转变温度
中点温度 T_{mg}	76℃	
外推终止温度 T_{efg}	78℃	

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图 1

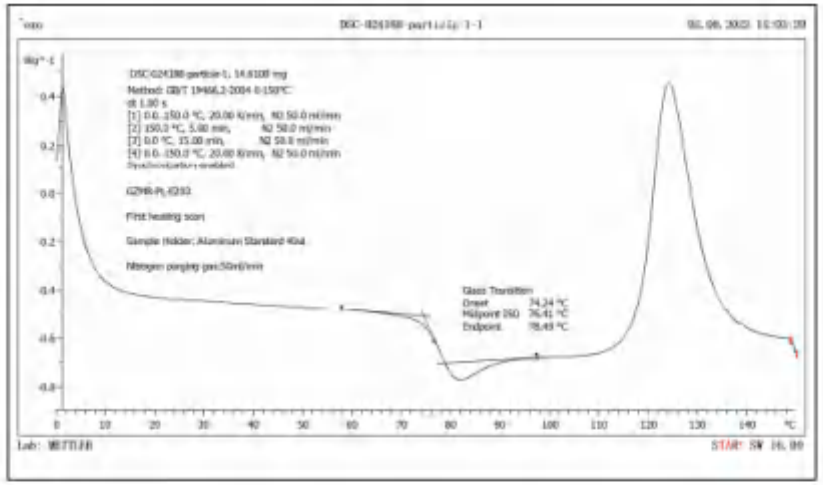

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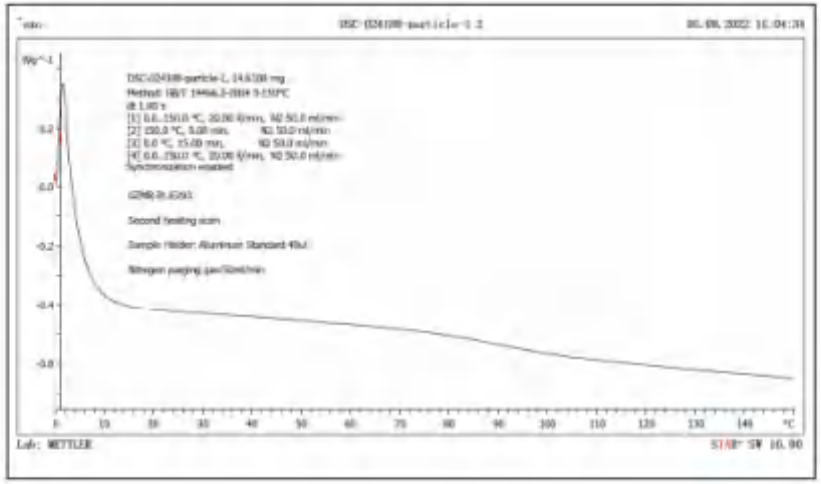
图 2



设备信息：

设备	型号	设备编号	校准日期	下次校准日期
差示扫描量热仪	DSC 3	GZMR-PL-E293	2022-03-18	2024-03-17

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9.测试项目：热失重分析(TGA)

样品描述：塑料粒料

测试方法：ISO 11358-1:2022，分析仪器为 TGA。

测试条件：

试样容器材料：铂金盘；

保护气体流速(氮气)：10ml/min；

样品吹扫气体流速(氮气)：25ml/min；

初始温度 40℃；

以 10℃/min 升温到 800℃。

测试结果：

测试项目	测试结果(TGA 曲线见图 1)
起始点温度 (T_A)	414.92℃
中点温度 (T_C)	436.49℃
结束点温度 (T_B)	458.07℃
质量损失 (M_L)	84.2%
质量残余 (R)	15.8%

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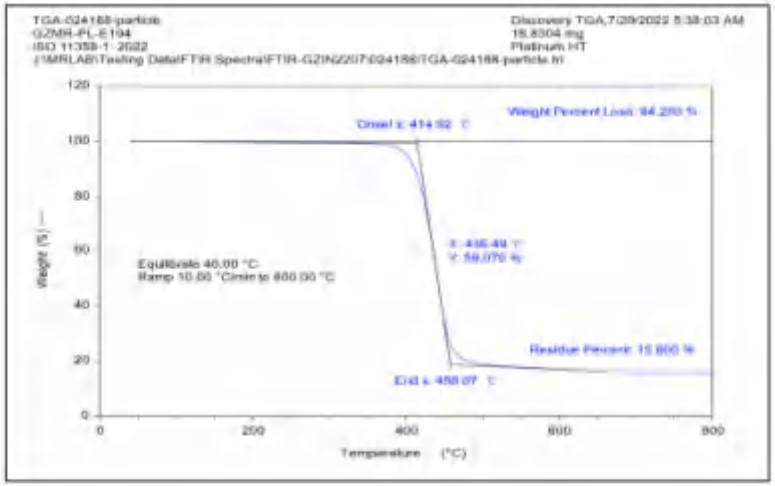
图 1



设备信息：

设备	型号	设备编号	校准日期	下次校准日期
热重分析仪	Discovery TGA	GZMR-PL-E194	2021-12-13	2023-12-12

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10.测试项目：负荷变形温度

样品描述：塑料粒料

测试方法：GB/T 1634.1-2019 & GB/T 1634.2-2019 方法 A

测试条件：

试样：80mm×9.86mm×3.99mm

传热介质：硅油

Tr1.8

升温速率：120℃/h

跨距：64mm

实验室环境条件：(23±2)℃, (50±5)%RH

测试结果：

测试项目	测试结果
负荷变形温度	71℃

备注：测试试样为注塑成型。

测试照片：

测试中

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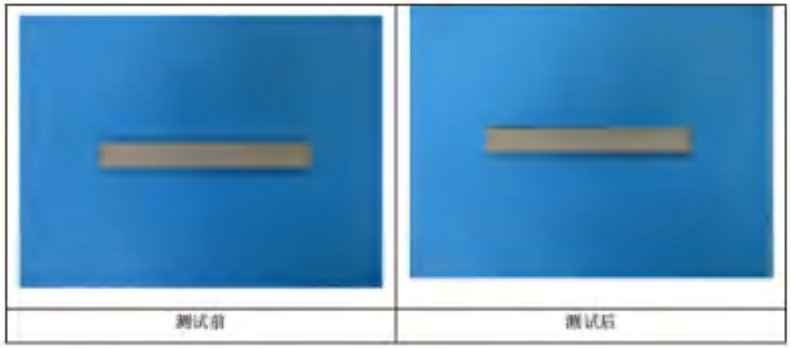

测试前	测试后

设备信息：

设备	型号	设备编号	校准日期	下次校准日期
热变形维卡测定仪	6970.000	GZMR-PL-E091	2022-01-11	2023-01-10

11.测试项目：维卡软化温度

样品描述：塑料粒料

测试方法：GB/T 1633-2000 方法 B50

测试条件：

试样厚度：3.23mm

传热介质：硅油

升温速率：50℃/h

负荷： 50N

实验室环境条件：23±2℃，50±5%RH

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检测报告

测试结果：

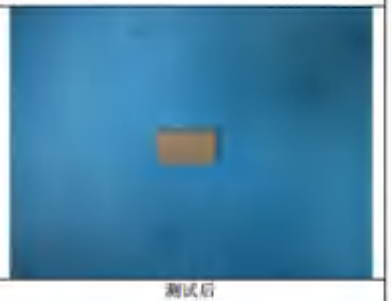
测试项目	测试结果
维卡软化温度	205℃

备注：测试试样从注塑成型后的样品中裁取。

测试照片：

测试中

测试前



测试后

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设备信息：

设备	型号	设备编号	校准日期	下次校准日期
热变形维卡测定仪	P/N 6911.000	GZMR-PL-E009	2022-05-24	2023-05-23

附录信息：

在中华人民共和国境内，报告若未加盖 CMA 章，表示本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。

本测试报告内容是报告编号为 GZMR220702418801 的中文版本。中英文版本如有歧义，概以英文版为准。

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Test Report

No. CANEC2216607001 Date: 11 Aug 2022 Page 1 of 4

Client Name : REEN PACKAGING TECHNOLOGY (JIANGSU) CO; LTD.

Client Address : NO.199, HONGXI ROAD, WUJIN DISTRICT, CHANGZHOU CITY, JIANGSU PROVINCE

Sample Name : Pet degradation particles

Material No. : PET

The above sample(s) and information were provided by the client.

SGS Job No. : CP22-043039 - GZ

Date of Sample Received : 03 Aug 2022

Testing Period : 03 Aug 2022 - 11 Aug 2022

Test Requested : Selected test(s) as requested by the client.

Test Method(s) : Please refer to next page(s).

Test Result(s) : Please refer to next page(s).

Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Ivy Ran

Ivy Ran
Approved Signatory

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Result Summary :

Test Requested	Comments
Residual Phthalates	See Results

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Test Result(s) :

Test Part Description :

Specimen No.	SGS Sample ID	Description	Material (claimed by the client)
SN1	CAN22-166070.001	Brown plastic sheet	PET

Residual Phthalates

Test Method : GB 31604.30-2016

Test Item(s)	CAS NO.	Unit	RL	001
Dibutyl Phthalate(DBP)	84-74-2	mg/kg	5.00	ND
Bis(2-ethylhexyl) phthalate (DEHP)	117-81-7	mg/kg	5.00	ND
Benzylbutyl Phthalate(BBP)	85-68-7	mg/kg	5.00	ND
Di-n-octyl phthalate(DnOP)	117-84-0	mg/kg	5.00	ND
Diisononyl Phthalate (DINP)	28553-12-0	mg/kg	50.0	ND
Diisodecyl Phthalate (DIDP)	26761-40-0 / 68515-49-1	mg/kg	50.0	ND

Notes :

1. mg/kg = milligram per kilogram
2. RL = Report Limit
3. ND= Not Detected(less than RL)

Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w =0) stated in ILAC-G8:09/2019.

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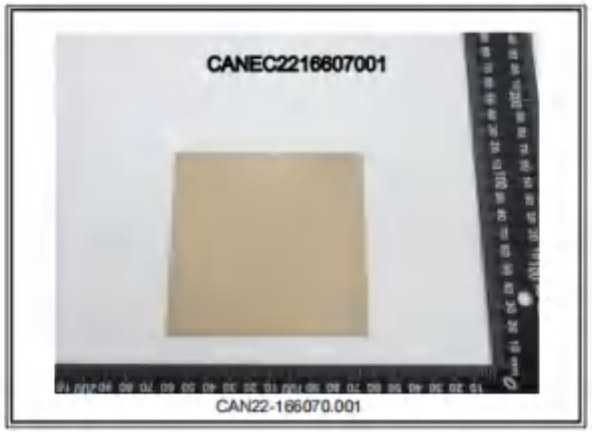
Sample photo:



CAN22-166070.001

SGS authenticate the photo on original report only

*** End of Report ***

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SGS

检测报告

编号: CANEC2216807003　　日期: 2022年08月11日　　第1页,共4页

客户名称：　格域新材料科技(江苏)有限公司
客户地址：　江苏省常州市武进区虹西路199号一号楼

样品名称：　PET降解粒子
料号：　聚酯PET
以上样品及信息由客户提供。

SGS工作编号：　CP22-043039 - GZ
样品接收日期：　2022年08月03日
检测周期：　2022年08月03日 - 2022年08月11日
检测要求：　根据客户要求检测
检测方法：　请参见下一页
检测结果：　请参见下一页

通标标准技术服务有限公司广州分公司
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任如花

Ivy Ren任如花
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检测结果概要：

检测要求	说明
邻苯二甲酸酯含量	见检测结果

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检测结果:

检测样品描述:

样品编号	SGS样品ID	描述	材质 (客户提供)
SN1	CAN22-166070.001	棕色塑料片	PET

邻苯二甲酸酯含量

检测方法: GB31604.30-2016。

检测项目	CAS NO.	单位	RL	001
邻苯二甲酸二丁酯(DBP)	84-74-2	mg/kg	5.00	ND
邻苯二甲酸二(2-乙基己基)酯(DEHP)	117-81-7	mg/kg	5.00	ND
邻苯二甲酸丁苄酯(BBP)	85-68-7	mg/kg	5.00	ND
邻苯二甲酸二正辛酯(DNOP)	117-84-0	mg/kg	5.00	ND
邻苯二甲酸二异壬酯(DINP)	28553-12-0	mg/kg	50.0	ND
邻苯二甲酸二异癸酯 (DIDP)	26761-40-0 / 68515-49-1	mg/kg	50.0	ND

备注:

1. mg/kg = 毫克/千克
2. RL = 报告限
3. ND= 未检出（小于RL）

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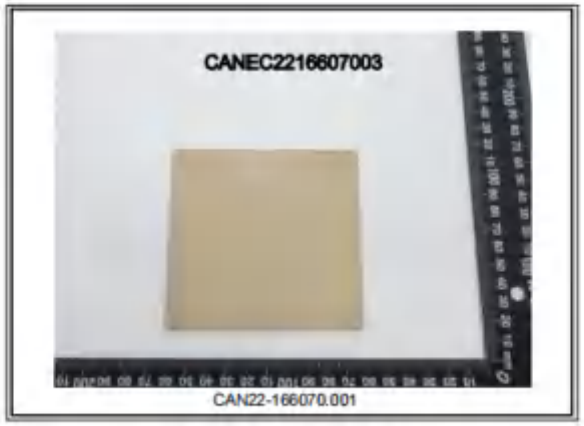
样品照片:



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SGS

Test Report

No. CANEC2216587201 Date: 08 Aug 2022 Page 1 of 7

Client Name : GREEN PACKAGING TECHNOLOGY (JIANGSU) CO; LTD.
Client Address : NO. 199, HONGXI ROAD, WUJIN DISTRICT, CHANGZHOU CITY, JIANGSU PROVINCE

Sample Name : Pet degradation particles
Material : PET
The above sample(s) and information were provided by the client.

SGS Job No. : CP22-042080 - GZ
Date of Sample Received : 02 Aug 2022
Testing Period : 02 Aug 2022 - 05 Aug 2022
Test Requested : Selected test(s) as requested by the client.
Test Method(s) : Please refer to next page(s).
Test Result(s) : Please refer to next page(s).

Result Summary:

Test Requested	Conclusion
European Directive 94/62/EC and its amendments – Total Lead, Cadmium, Mercury and Hexavalent Chromium Content	PASS
Elementary Analysis	See Results
Halogen	See Results

Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Allie Chen

Allie Chen
Approved Signatory

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Test Result(s) :

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	CAN22-165872.001	Light brown translucent material

Remarks :

(1) 1 mg/kg = 0.0001%
(2) MDL = Method Detection Limit
(3) ND = Not Detected (< MDL)
(4) "-" = Not Regulated

European Directive 94/62/EC and its amendments - Total Lead, Cadmium, Mercury and Hexavalent Chromium Content

Test Method : With reference to GZTC CHEM-TOP-174-01, analysis was performed by ICP-OES & UV-Vis.

Test Item(s)	Limit	Unit	MDL	001
Cadmium (Cd)	-	mg/kg	5	ND
Lead (Pb)	-	mg/kg	5	ND
Hexavalent Chromium (CrVI)	-	mg/kg	8	ND
Mercury (Hg)	-	mg/kg	5	ND
Total (Pb + Cd + Cr VI + Hg)	100	mg/kg	-	ND
Comment				**PASS**

Elementary Analysis

Test Method : SGS In-house method (GZTC CHEM-TOP-004-01, with reference to EPA 3052:1996), analysis was performed by ICP-OES.

Test Item(s)	Unit	MDL	001
Copper (Cu)	mg/kg	5	ND
Nickel (Ni)	mg/kg	5	ND
Cadmium (Cd)	mg/kg	2	ND
Lead (Pb)	mg/kg	2	ND
Mercury (Hg)	mg/kg	2	ND
Chromium (Cr)	mg/kg	2	ND
Molybdenum (Mo)	mg/kg	5	ND
Selenium (Se)	mg/kg	10	ND
Cobalt (Co)	mg/kg	5	ND

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Test Item(s)	Unit	MDL	001
Arsenic (As)	mg/kg	10	ND

Halogen

Test Method : With reference to EN 14582:2016, analysis was performed by IC.

Test Item(s)	Unit	MDL	001
Fluorine (F)	mg/kg	50	ND

Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w =0) stated in ILAC-G8:09/2019.

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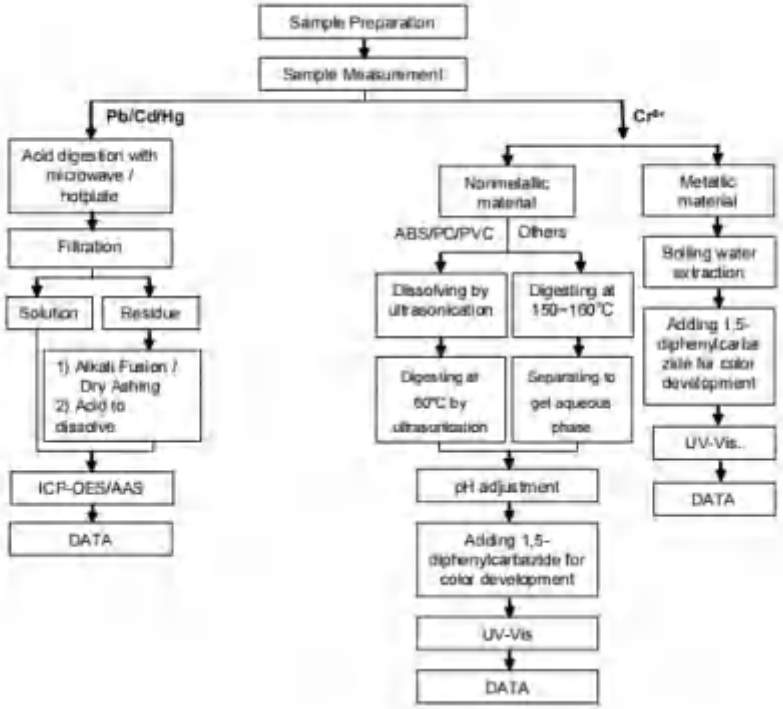
Pb/Cd/Hg/Cr^{6+} Testing Flow Chart

1) These samples were dissolved totally by pre -conditioning method according to below flow chart.. (Cr^{6+} test method excluded).



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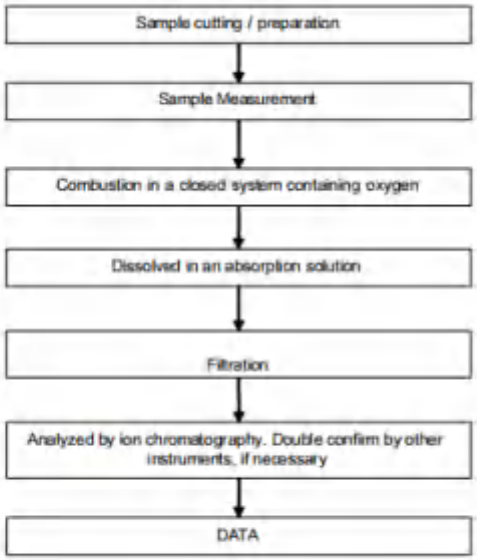
Halogen Testing Flow Chart



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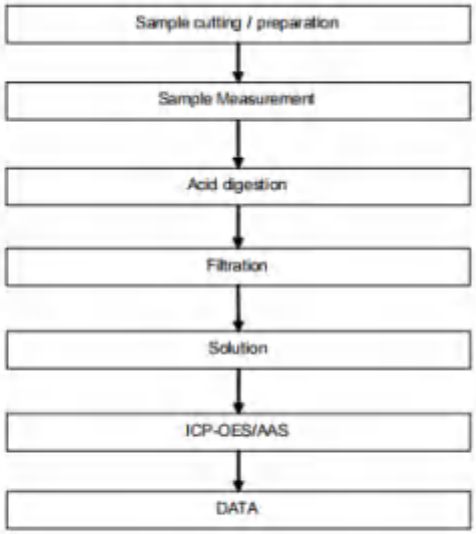
Elementary Testing Flow Chart



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Sample photo:

CANZ2-165872.001

SGS authenticate the photo on original report only

*** End of Report ***

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检测报告

编号: CANEC2216587202　　日期: 2022年08月08日　第1页,共7页

客户名称：　华诚新材料科技（江苏）有限公司
客户地址：　江苏省常州市武进区虹西路199号一号楼

样品名称：　PET降解粒子
材质：　聚酯
以上样品及信息由客户提供。

SGS工作编号：　CP22-042980 - GZ
样品接收日期：　2022年08月02日
检测周期：　2022年08月02日 - 2022年08月05日
检测要求：　根据客户要求检测
检测方法：　请参见下一页
检测结果：　请参见下一页

检测结果概要：

检测要求	结论
欧洲委员会指令94/62/EC及其后续修正指令-总铅，镉，汞和六价铬的含量	符合
元素分析	见检测结果
卤素	见检测结果

通标标准技术服务有限公司广州分公司
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陈江秉

Allie Chen陈江秉
批准签署人

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检测报告

编号: CANEC2216587202　　日期: 2022年08月08日　第2页,共7页

检测结果：

检测样品描述：

样品编号	SGS样品ID	描述
SN1	CAN22-165872.001	浅棕色半透明物料

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

欧洲委员会指令94/62/EC及其后续修正指令-总铅、镉、汞和六价铬的含量

检测方法：　参考GZTC CHEM-TOP-174-01，采用ICP-OES & UV-Vis分析。

检测项目	限值	单位	MDL	001
镉 (Cd)	-	mg/kg	5	ND
铅 (Pb)	-	mg/kg	5	ND
六价铬 (CrVI)	-	mg/kg	8	ND
汞 (Hg)	-	mg/kg	5	ND
总量 (Pb + Cd + Cr VI + Hg)	100	mg/kg	-	ND
结论				**符合**

元素分析

检测方法：　SGS内部方法（GZTC CHEM-TOP-804-01，参考EPA 3052: 1996），采用ICP-OES进行分析。

检测项目	单位	MDL	001
铜(Cu)	mg/kg	5	ND
镍(Ni)	mg/kg	5	ND
镉 (Cd)	mg/kg	2	ND
铅(Pb)	mg/kg	2	ND
汞 (Hg)	mg/kg	2	ND
铬 (Cr)	mg/kg	2	ND
钼(Mo)	mg/kg	5	ND
锑 (Sb)	mg/kg	10	ND
钴(Co)	mg/kg	5	ND
砷 (As)	mg/kg	10	ND

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卤素

检测方法： 参考EN 14582:2016，用 IC分析。

检测项目	单位	MDL	001
氟 (F)	mg/kg	50	ND

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附件

Pb/Cd/Hg/Cr^{6+} 检测流程图

1) 样品按照下述流程被完全消解（六价铬检测除外）。

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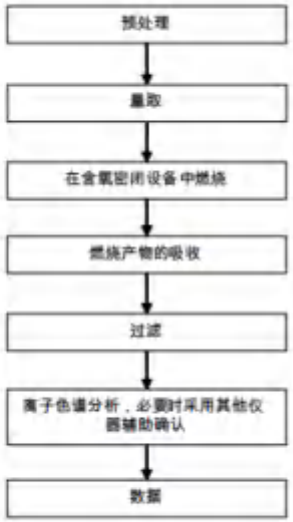
卤素检测流程图



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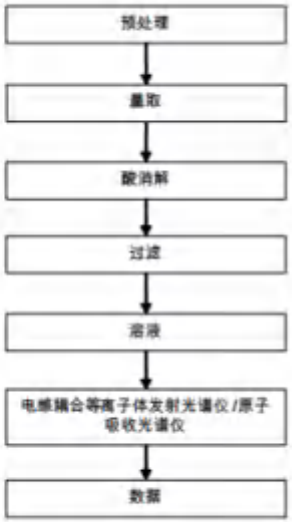
元素检测流程图



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