

偏光眼镜规格书

(V1.0)

产品名称：偏光式 3D 眼镜
产品型号：GTS61-001
制造厂商：深圳市格特斯电子有限公司
日期：2012-09-14

地址：深圳市宝安区福永富华工业区八栋
电话：0755-27515040/27515171
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网址：<http://www.getteks.com>

供 方	编 制	审 核	批 准

需 方	确 认	审 核	批 准

偏光眼镜偏光片规格书修订履历表

更改页码	图示	更改内容	日期	修订	审核	确认

目录

- 一； 3D 眼镜检验规范
- 二； 产品外观效果图
- 三； 3D 眼镜规格书
- 四； **3D** 眼镜角度示意图
- 五； 包装说明
- 六； 产品工程图
- 七； 成品检验报告
- 八； 耐久性测试报告
- 九； 环境不使用清单
- 十； **SGS** 报告

眼镜外观图





图 1

眼镜部位说明图



图 2

3D 眼镜检验规范

1	外观检验	在正常光线下距 45cm 处目视 (必须带手套作业)	1.镜片表面不可有明显碎角、破裂，参见限度样板 2.前/后壳缝隙、错位 $\leq 0.5\text{mm}$ 无感刮伤长 $\leq 3\text{mm}$ 宽 $\leq 0.02\text{mm}$ 尘点或颗粒直径 $\leq 0.3\text{mm}$ (面积 $\leq 0.1\text{mm}^2$) 数量 ≤ 1 个 3.手摇产品内部无松动或出现异物响声 4.左/右耳挂与框架间不允许有批锋 5.左/右镜臂颜色与前后壳的颜色需一致，色差需小于 L 值 0.5 a 值 0.3 b 值 0.2	AQL	目视 菲林 承认样品	※左右镜片反，表面划伤，折痕，异物，黑点等 ※测试过程中，所测试的数据必须记录并保留
2	位相差检测	在正常光线下用 RD 或 MI 仪器检测 (必须带手套作业)	根据眼镜镜片呈现颜色判定： 将同一系列产品放置于相应的偏光测试仪上对照显示，呈紫色表面为 OK，呈透明表面 NG	5PCS /批	目视 偏光测试仪	 

3	左右镜片 角度检验	在正常光线下距 45cm 处 目视 (必须带手套作业)	根据眼镜镜片呈现颜色判定： 1.将产品左镜面对照偏光测试仪的左屏面呈黑色为 OK,如是呈透明为 NG (参照右图一) 2.将产品右镜面对照偏光测试仪的右屏面呈黑色为 OK,如是呈透明为 NG 3:不允许将产品镜面的左/右与偏光测试仪屏面左/右调反测试,属错误操作 (参照右图二)	5PCS /批	目视 偏光测试仪	 ※根据规格要求,选择对应测试仪器检测 (RD 角度用 RD 角度测试仪测试, MI 角度用 MI 角度测试仪测试)
4	落球测试	带手套用取钢球进行测试	1.取直径为 15.9mm,重量为 16KG 的钢球由 1.27M 的高度任意垂落于镜片的水平凸面或外部表面。钢球须落在位于镜片几何中心 16mm 直径的圆圈内,允许变形但不能出现裂片现象。	5PCS /批	落球测试仪	
5	ROHS 测试报告核对	目视	RoHS 测试报告必须在一年有效期内	每批次核对	RoHS 检测报告	※确保测试报告在有效期内
6	包装检查	待包装好的产品进行 AQL 抽样检查	1.内盒标示要求 (尺寸、数量、颜色、字印/LOGO) PE 袋无破损。 2.外箱标示要求 (正/侧唛) 是否跟订单要求和规格书以及样板一致,外观不可有漏字、缺字模糊不清、破损以及重量不符等。	AQL	目视 产品总装图 订单评审表	※少装、多装、LOGO、尺寸、重量核对 ※测试过程中,所测试的数据必须记录并保留
版本: A/0			编号:GTS-WI-PZ-045	制作: 刘小虎		批准: 唐小波

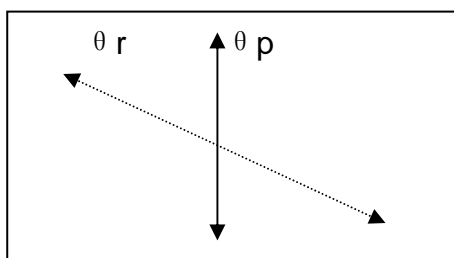
3D 眼镜规格书

项目		GTS61-001
镜框原料	前壳	ABS
	耳挂	
镜框尺寸	前壳	153 ⁺⁰ ₋₂
	鼻梁	18
	耳挂	137.7
	镜片	62*37
镜框重量		11.4g
镜片厚度	有效厚度	297±30
	保护膜厚度	50±5
光学参数	单体透过率	41±2
	交叉透过率	<0.3
	偏光度	≥99.8
	紫外线透过率	<1.0
	雾度	≤2.0
色调	L	70±2
	a	-2±2.0
	b	4±2.0
位相差值		125±10

耐久性

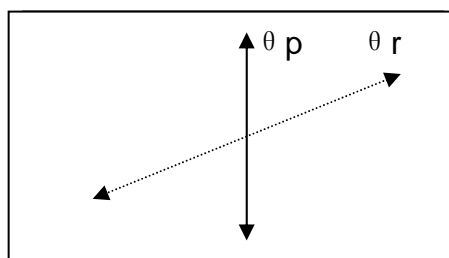
高温性能	80°C*500hrs
低温性能	-30°C*500hrs
高温高湿	60°C 90%RH*500hrs
冷热冲击	-30°C<=>80°C (for 30 min) 100cycles

3D 眼镜角度示意图



L

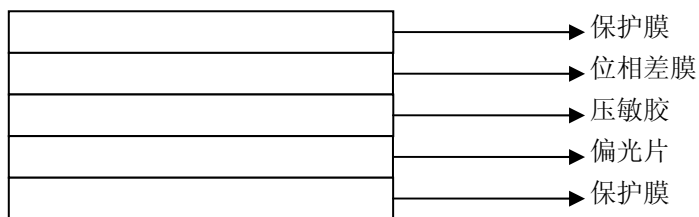
偏光片吸收轴之角度 θ_p
位相差膜慢轴角度 θ_r



R

偏光片吸收轴之角度 θ_p
位相差膜慢轴角度 θ_r

普通偏光片结构



包装

项目	白盒		外箱		PE 袋
	规格	包装数	规格	包装数	规格
包装说明	160*88*43mm	2pcs	670*460*665mm	600pcs	210*85mm
生产说明	1 包装：2 pcs 装一内盒。600 pcs 装一外箱				
	2 PE 袋：四国回收标识，RoHS 打孔 厚度 0.045 mm				
	3 重量：一盒的重量是 0.06kg，一箱的重量是 19.57 kg。				

备注：订单包装方式：依客人订单要求进行订单号、批号的标示，做到可追溯。



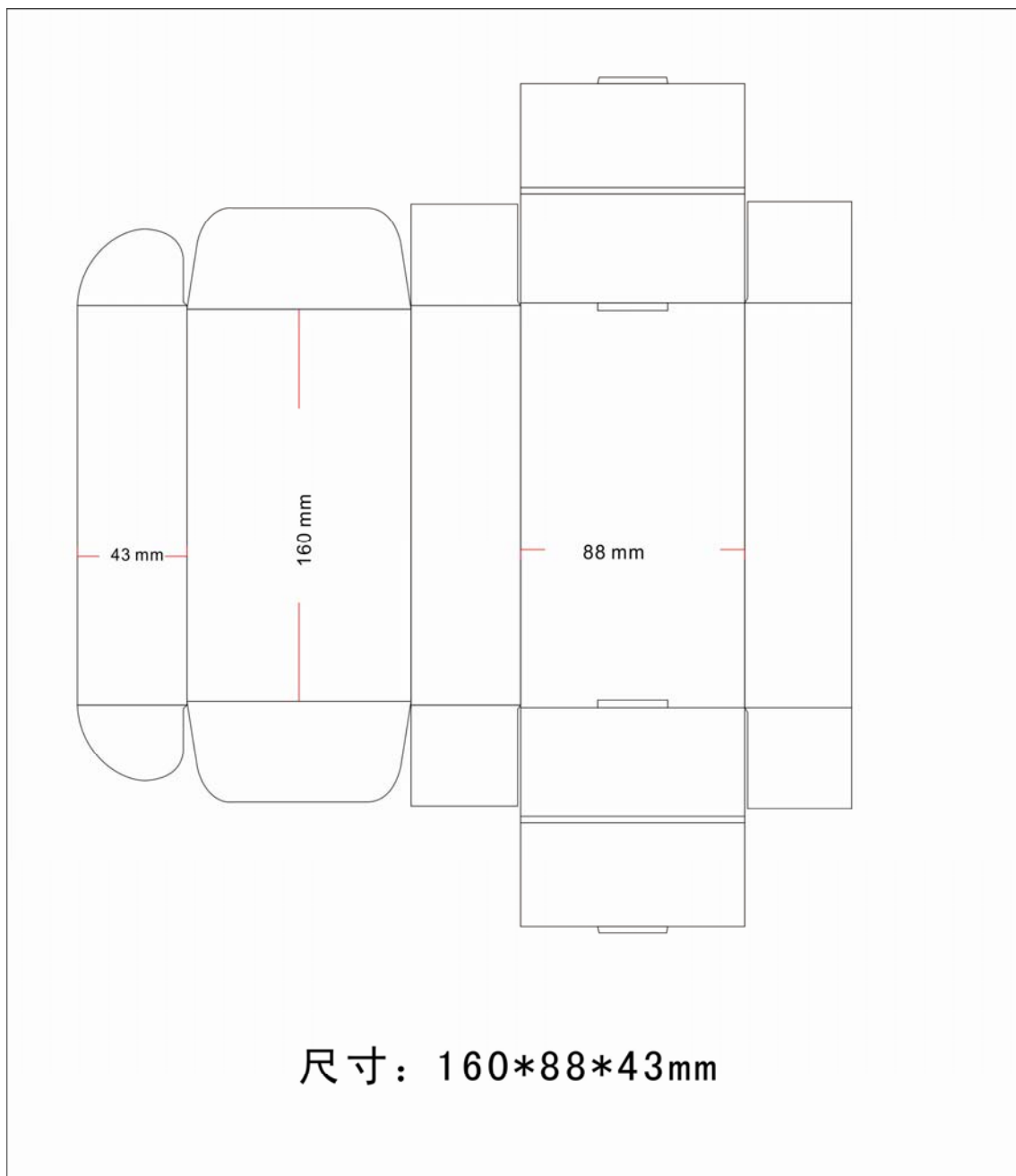




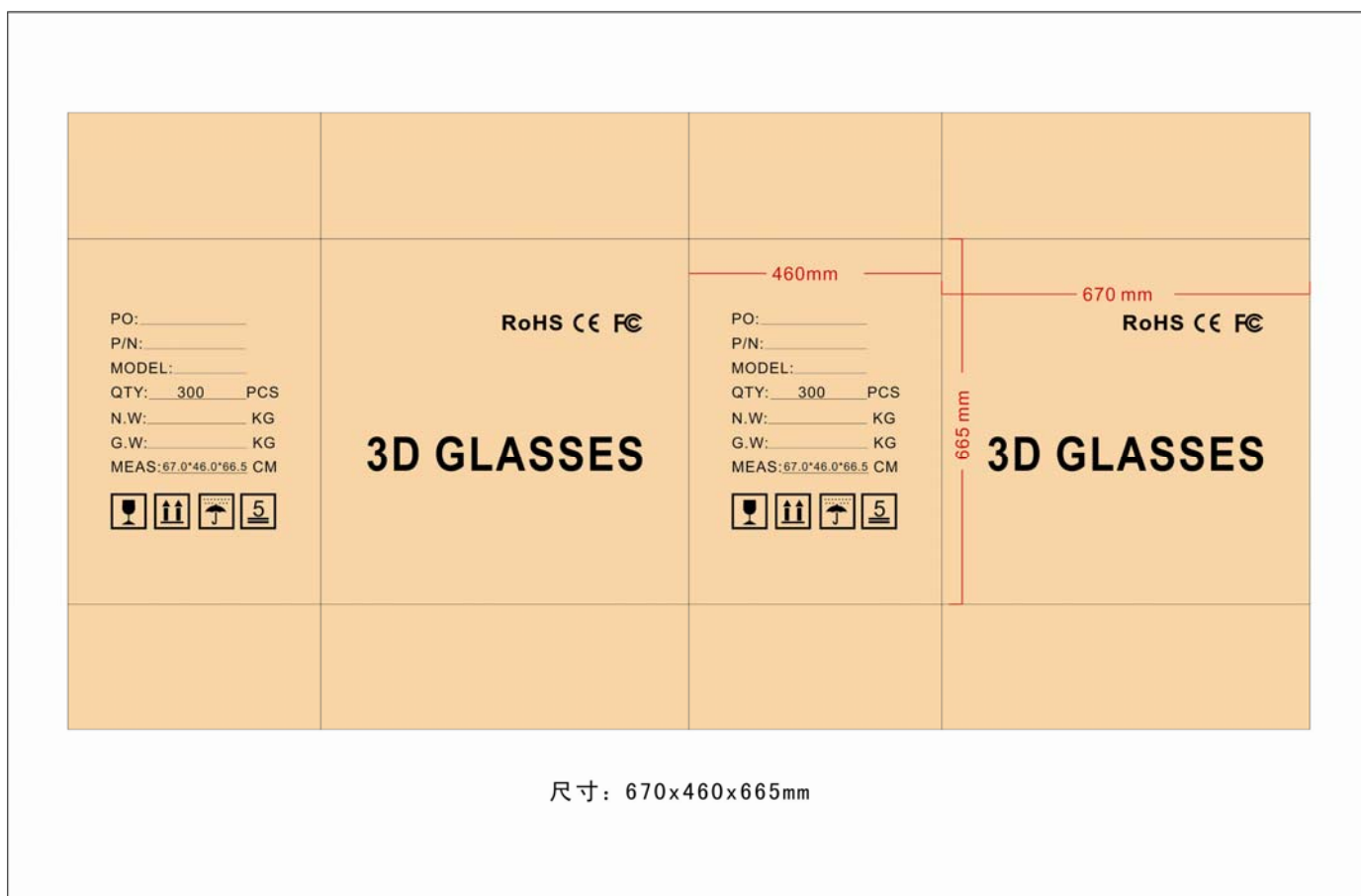


内盒

内盒

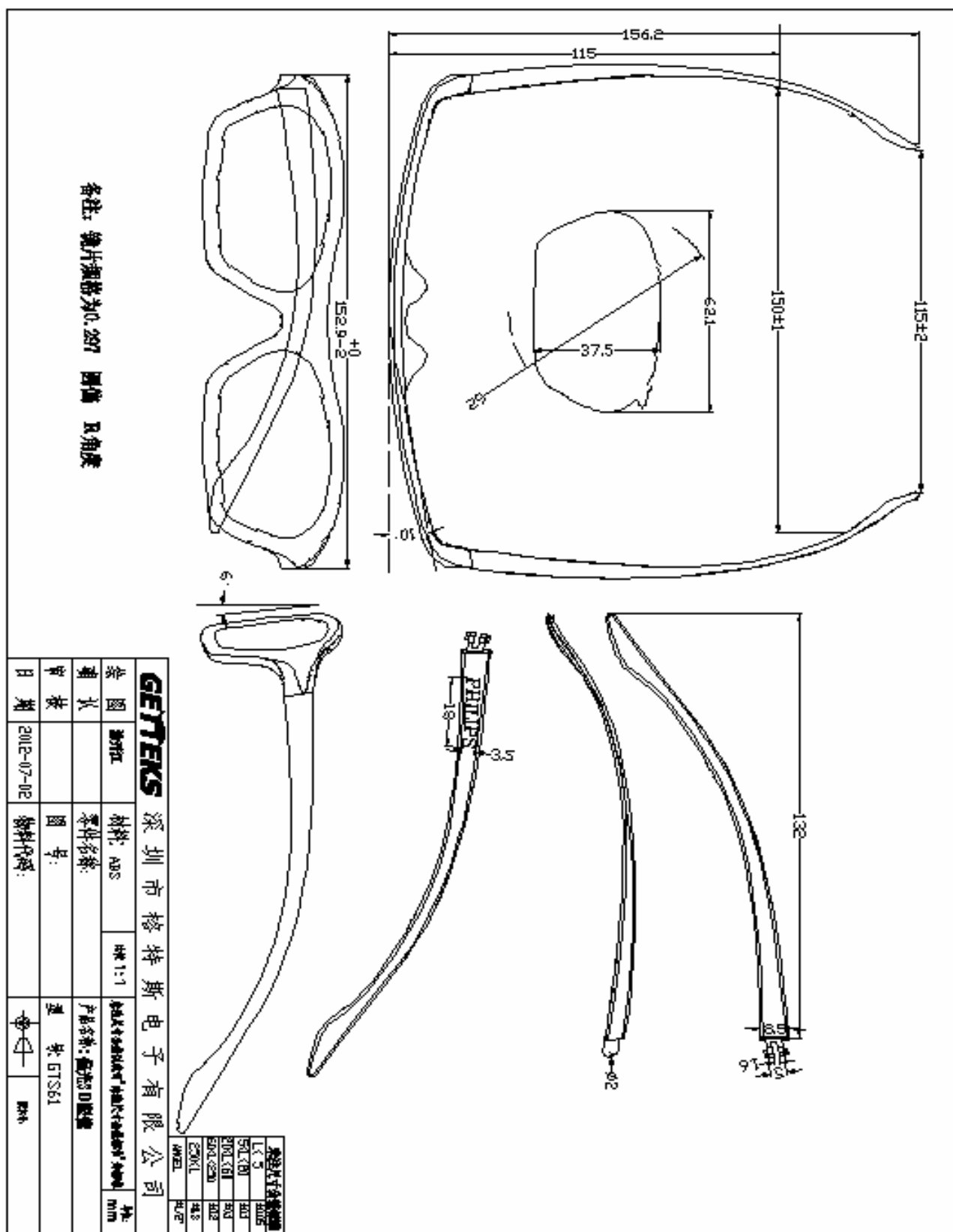


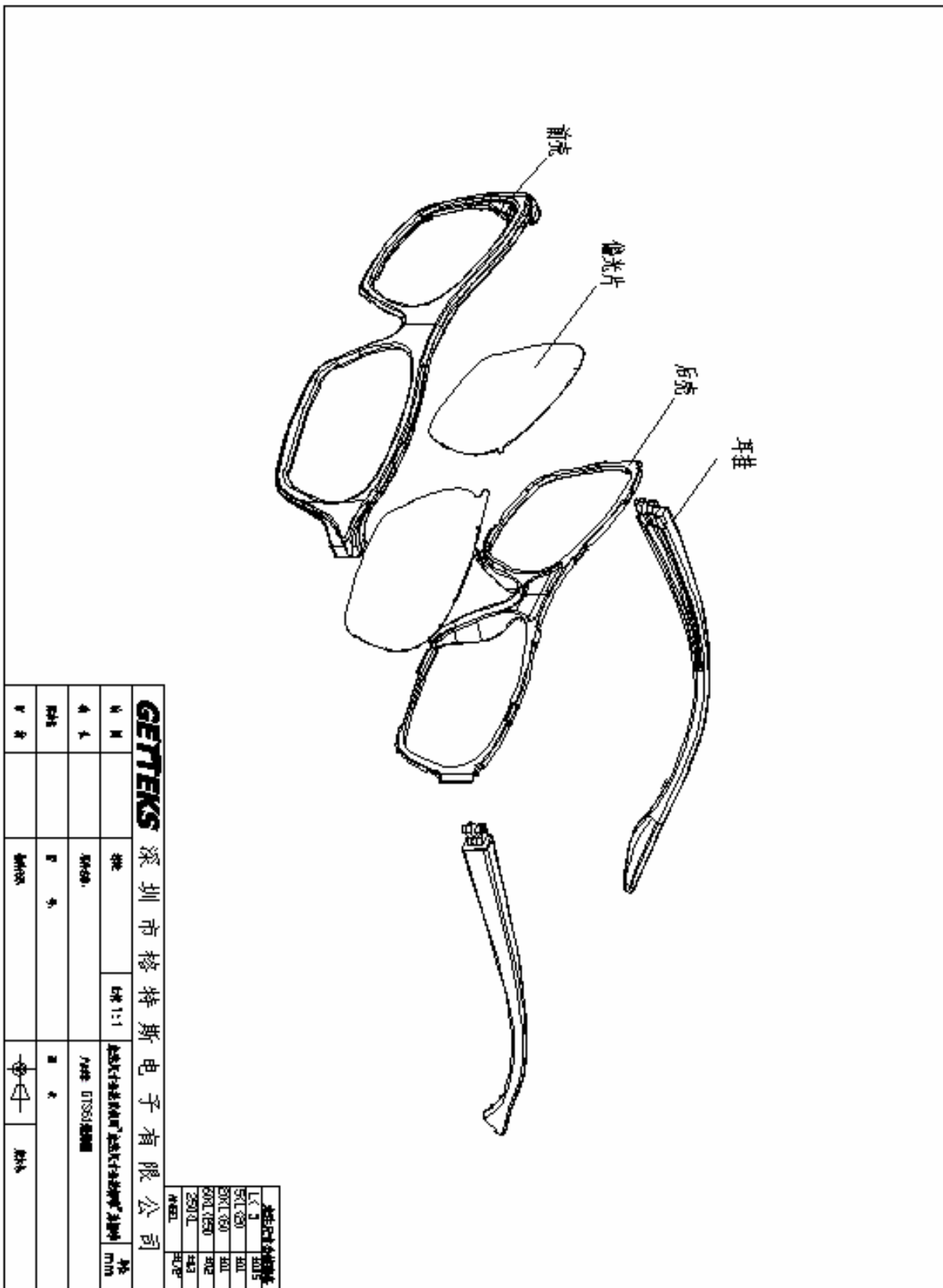
外箱



尺寸：670x460x665mm

产品工程图





地址：深圳市宝安区福永富华工业区八栋
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深圳市格特斯电子有限公司

OQC成品检验报告

OQC FINAL INSPECTION REPORT

日期:

表单编号: GTS-PZ-032

客户名称		订单号		批量数		抽检数	
客户料号		产品名称		温度	℃	湿度	% RH

抽样计划 PLE PLAN: MIL-STD-105E LEVEL(II) 单次抽样

抽样标准	<input type="checkbox"/> 正常抽样 <input type="checkbox"/> 加严抽样 <input type="checkbox"/> 放松抽样	判定	致命缺陷	严重缺陷	轻微缺陷
		AQL	0	0.65	1.0
		允收			
		拒收			

序号	检验项目	检验内容	不良数		
			致命	严重	轻微
1	外观 PEARANCE				
2	附件/包装/ANNEX/PACK				
3	功能 FUNCTIONAL				

序号	检验项目	检验过程记录 (以下测试项目如不适用则填 N/A)						
		1	2	3	4	5	结果判定	缺陷等级定义
1	镜片外观检查							严重
2	前/后壳外观检查							严重
3	LOGO 丝印检查							严重
4	耳挂开合是否过松, 过紧							严重
6	前后扭动 15 度检查超声线							严重
7	位相差值							严重
8	偏光度							严重
9	色相							严重
10	透过率							严重
11	核对产品 ROHS 测试报告是否在有效期一年内							严重
12	包装, 附件检查							严重
13	镜片规格, 角度确认							严重
14	外箱标识卡内容检验							严重

测试电视型号:	硬件版本号:	箱数	箱
测试片源型号:	软件版本号:	每箱毛重	(KG)
测试系统型号:		尾数	PCS

品质部检验结果: 合格 不合格

管代/总经理最终判定	接收	拒收
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品质主管审核:

确认:

OQC:



实验测试报告

2012.5.14

实验测试信息	测试部门(单位)	研发部/品质部		
	实验测试联系人	江明富	联系电话	
样品信息	样品名称	偏光片	型号规格	SLP-F5215A3RD81-L
	产品代码		商标	
	样品数量	5PCS	生产厂商	三利谱
	样品状况	<input checked="" type="checkbox"/> 完好 <input type="checkbox"/> 散包装 <input type="checkbox"/> 破损 <input type="checkbox"/> 其他		
	实验测试目的	验证产品是否合格		
样品处理	样品加工或制备的特殊要求:			
	试毕样品处理	<input type="checkbox"/> 检验消耗 <input type="checkbox"/> 验完退回(含已损坏样品) <input type="checkbox"/> 部分退回		
	样品保管期限	■ 在生产产品合格品正常下道工序或者入库。新产品或测试样品部门样品保存		
检测项目	检测标准			检测结果
外观检测	偏光板划伤、凹痕、气泡①、异物、污损、针孔状等, 平均直径大于0.15mm计算为一个点状缺点。			OK
弯曲度特性	打开铝箔袋取出偏光板后水平放置上五分钟, 保护膜面朝上之翘曲为“正弯曲”, 离型膜面朝上之翘曲为“负弯曲”, 在22±5℃ 60±10%RH条件下, 进行翘曲之测定。			OK
高温测试	温度80(°C)	湿度:干燥	测试时间500H	OK
高温高湿测试	温度60(°C)	湿度:90(%RH)	测试时间500H	OK
低温测试	温度-30(°C)	湿度:干燥	测试时间500H	OK
厚度	首先剥掉保护膜, 然后剥离离型膜, 处理后的样品放到微测厚计上测量, 左中右位置测三个点取其平均值。			OK
尺寸	首先剥掉保护膜, 然后剥离离型膜, 处理后的样品放到微测厚计上测量, 左中右位置测三个点取其平均值。			OK
测试结果	OK			
审核:	[Signature]		批准:	[Signature]

备注: 1. 非标实验测试项目, 需根据企业内控标准。其他实验测试按照国家标准
 2. 实验测试目的一栏必须详细注明实验测试的原因。
 3. 新产品实验测试确认的, 需提交产品零部件清单(BOM清单)及原理图、作业指导书, 作为实验检测报告的附页。

环境管理物质不使用证书 (原材料及原材料厂家 LIST)

向贵司销售的零部件及组件的使用材料、包装材料等中未使用 TPV 要求 (RDEMS-01) 的管理物质 (禁止使用对象) 及其用途, 特此证明。
且: 零部件及组件的使用在材料, 由以下成分构成。 特此报告

1. 零件料号: 317GA3DG014GTS

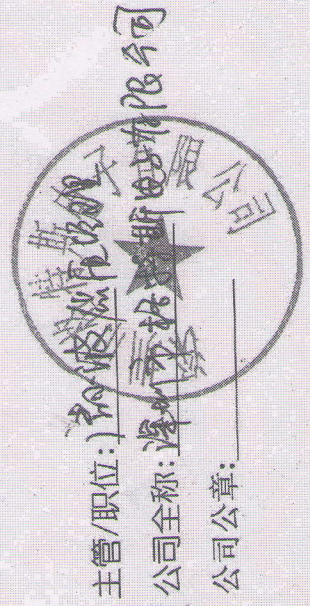
以下清单所列均质原材料为本产品中所有到的所有原材料

ITEM	Raw Material	Raw Material Supplier	Cd 含量(ppm)	Pb 含量(ppm)	Cr ⁶⁺ 含量(ppm)	Hg 含量(ppm)	PBB/PBDE 含量(ppm)	Cl 含量(ppm)	Br 含量(ppm)	PAHs		第三方测试报告号 码
										含量(ppm)		
1	前后壳及耳挂	CHI MEI	N.D	N.D	N.D	N.D	N.D	No test	No test	No test	No test	KA/2011/C1889
2	胶袋	HUA LIAN	N.D	N.D	N.D	N.D	N.D	No test	No test	No test	No test	RLSZD00106264 0001
3	偏光片	三利谱	N.D	N.D	N.D	N.D	N.D	No test	No test	No test	No test	RLSZE00132488 0007C
4												
5												
6												
7												
8												

2、ICP 测试对象物质 (塑料 (含橡胶) 涂料、油墨和线材材料中的镉和铅) 测试要求的 ICP 数据另附。 ICP 测试对象物质的成分表或 MSDS 另附。

备注: 请填写该类零部件用到的所有部件、原材料、辅助材料的详细信息。

必须详细, 正确的填写部件、原材料、辅助材料的供应商名称、材料型号



深圳市格特斯电子有限公司

Packaging Substances Guarantee Letter

We (includes our subsidiary, affiliated company) here guarantee that all packaging and packaging materials shipped to TPV and affiliated companies (includes directly shipping or via third parties) are contained free of those prohibited materials which listed on TPV standard (RDEMS-01 Ver.: A.06.1), section 4:

Substances	CAS No.	Available concentration (ppm)	Application
Cadmium, Lead, Mercury, Hexavalent Chromium	—	Sum of four substances: 100	All packaging and packaging materials
Formaldehyde	50-00-0	0.05	Pallet: HWWV-VC or HWWV-CC
		0.09	Pallet: PB
		0.11	Pallet: MDF
		0.13	Pallet: TMDF
		0.1ppm 0.124mg/m ³	Pallet: Release formaldehyde content in 12m ³ , 1m ³ or 0.00225m ³ air-locked chamber
0.1	Adhesive, ink, paint, tape		
Benzene	71-43-2	1	All packaging and packaging materials
Toluene	108-88-3	40	All packaging and packaging materials
Volatile Organic Compounds (VOC)	—	Sum of all VOC: 100	All packaging and packaging materials

Signature: Position: Date: Cachet: 

深圳市格特斯电子有限公司限制管理物质合格保证书

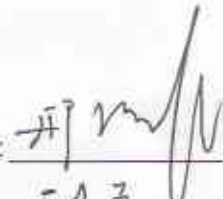
敝司保证敝司（包括敝司的子公司，联营公司，以下类同）直接或通过第 3 方单位向冠捷及其关联公司提供的制品或部品（附属物及其它随制品一起提供的所有物品）中所包含的所有物质符合冠捷环境管理物质标准（RDEMS-01 Ver. : A.06）第 4 节的规定，包括以下指定的物质：

物质	CAS No.	限值(ppm)	管制范围
镉及其化合物	7440-43-9	5	所有均质材料，豁免项目除外(豁免项目请参照RDEMS-01表Annex II)
铅及其化合物	7439-92-1	50	所有均质材料，豁免项目除外(豁免项目请参照RDEMS-01表Annex II)
汞及其化合物	7439-97-6	ND	所有均质材料，豁免项目除外(豁免项目请参照RDEMS-01表Annex II)
六价铬及其化合物	--	不得含有	金属
		100	除了上述项目外的其他均质材料(豁免项目请参照RDEMS-01表Annex II)
多溴联苯(PBB), 包含十溴联苯醚(DecaBDE)的多溴二苯醚, 及其氧化物(PBDEs, PBBEs, PBBOs)	PBB: 59536-65-1	不得含有	所有均质材料
铍及其化合物(含氧化铍)	BeO: 1304-56-9	不得有意添加	所有均质材料
镁及其化合物	7439-95-4	1000	所有均质材料
砷及其化合物(含五氧化二砷, 三氧化二砷)	Sb ₂ O ₃ : 1303-28-2 Sb ₂ O ₃ : 1327-53-3	10	Panel中用到的玻璃
		100	除了上述项目外的其他均质材料
铈及其化合物	7440-36-0	1000	所有均质材料
镍及其化合物	7440-02-0	0.5 µg/cm ² /周	仅限于直接与皮肤有长期接触(>30秒)的物品表面处理应用
铋及其化合物	7440-69-9	1000	所有均质材料
硒及其化合物	7782-49-2	1000	所有均质材料
二氯化钴	7646-79-9	不得有意添加	用于干燥剂(硅胶等)中的湿度指示剂
石棉	--	不得含有	所有均质材料
臭氧层破坏物质(ODS)	--	不得含有	所有均质材料
氟化温室气体(SF ₆ , PFCs, HFCs)	--	不得含有	所有均质材料
全氟辛酸磺酸(PFOA)及其酯化物(PFOS)	PFOA: 1723-23-1	1µg/m ²	涂层材料
		1000	除了上述项目外的其他均质材料

多氯化戴奥辛及呋喃 (PCDDs & PCDFs)	--	不得含有	所有均质材料
六氯环己烷(HCH)	608-73-1	不得含有	所有均质材料
多氯联苯(PCB)	1336-36-3	不得含有	所有均质材料
多氯三联苯(PCT)	61788-33-8	不得含有	所有均质材料
多氯化萘(PCN)	70776-03-3	不得含有	所有均质材料
短链氯化石蜡 (C10-C13 SCCP)	85535-84-8	不得含有	所有均质材料
中链氯化石蜡 MCCP	85535-85-9	不得有意添加	所有均质材料
五氯苯酚(PCP)及其盐 类与酯类	87-86-5	不得有意添加	所有均质材料
单甲基二氯二苯甲烷 (Ugilec 121 或 Ugilec 21)	--	不得含有	所有均质材料
单甲基四氯乙烷甲烷 (Ugilec 141)	76253-60-6	不得含有	所有均质材料
单甲基二溴二苯基甲 烷 (DBBT)	99688-47-8	不得含有	所有均质材料
六溴环十二烷 (HBCDD)及其主要光 学异构物	25637-99-4 3194-55-6 134237-50-6 134237-51-7 134237-52-8	1000	所有均质材料
四溴双酚A(TBBPA)	79-94-7	1000	除了印刷电路板、IC封装本体、线材与 连接器以外的所有均质材料
多溴化戴奥辛及呋喃 (PBDDs & PBDFs)	--	不得含有	所有均质材料
特定偶氮化合物	--	30	会与人体接触的所有均质材料
三丁基锡 (TBT)、三 苯基锡 (TPT)、氧化 三丁锡 (TBTO)	TBTO: 56-35-9	不得含有	所有均质材料
二丁基锡 (DBT)、二 辛基锡 (DOT) 化合物	DBTO: 818-08-6 DOTO: 870-08-6	不得含有	所有均质材料
壬基酚与壬基酚聚氧 乙烯醚及相关物质 (NP/NPEs)	--	不得含有	所有均质材料
辛基酚 (OP)	--	不得含有	所有均质材料
富马酸二甲酯(DMF)	624-49-7	1000	所有均质材料
特定邻苯二甲酸盐	--	1000	所有均质材料
多环芳香烃(PAHs)	--	不得含有	所有均质材料
挥发性有机物(VOCs)	--	1000	黏合剂、涂料
双酚A(Bisphenol A)	80-05-7	25	塑料

麝香类物质(二甲苯麝香及酮麝香)	Musk xylene: 81-15-2	500	所有均质材料
4,4'-二氨基二苯基甲烷 (MDA)	101-77-9	1000	所有均质材料
2-(2'-羟基-3',5'-二叔丁基苯基)-苯并三唑	3846-71-7	不得有意添加	用于塑料中作为紫外线防护剂、紫外线吸收剂的用途
氨基-/硝基-苯/联苯/有机物	--	不得有意添加	所有均质材料
对二氨基联苯及其盐类	--	不得含有	所有均质材料
红磷, 黄磷	7723-14-0	不得有意添加	所有均质材料
六氯乙烷	67-72-1	禁止	非铁金属的制造与加工
三氯生	3380-34-5	10	所有均质材料
表面活性剂 (DTDMAC/DODMAC/DHTDMAC)	DTDMAC: 68783-78-8 DODMAC: 107-64-2 DHTDMAC: 61789-80-8	总和1000	清洗剂
磷酸三(2-氯乙基)酯 (TCEP)	115-96-8	1000	用于塑料、树脂、纤维、布料的难燃剂用途
放射性物质	--	不得含有	所有均质材料

签名 (Signature):



职位 (Position):

副总

日期 (Date):

2012/6/20

公章 (Cachet):



Test Report

Report No. RLSZD001062640001

Page 1 of 4

Applicant SHENZHEN CITY HUALIAN PACKAGING PRODUCTS CO.,LTD

Address AOAN DISTRICT SHENZHEN CITY SANWEI INDUSTRIAL ZONE XIXIANG
NO.A. ,CHINA

Report on the submitted sample(s) said to be

Sample Name PE胶袋 POF热缩袋
Sample Description Transparent film
Color Transparent
Material PE
Sample Received Date Oct. 19, 2011
Testing Period Oct. 19, 2011 to Oct. 22, 2011

Test Requested As specified by client, to determine the Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent Chromium(Cr(VI)), Polybrominated iphenyls(P s), Polybrominated Diphenyl Ethers(P DEs) content in the submitted sample.

Test Method

Test Item(s)	Test Method	Measured Equipment(s)	MDL
Lead(Pb)	IEC 62321:2008 Ed.1 Sec.8	ICP-OES	2 mg/kg
Cadmium(Cd)	IEC 62321:2008 Ed.1 Sec.8	ICP-OES	2 mg/kg
Mercury(Hg)	IEC 62321:2008 Ed.1 Sec.7	ICP-OES	2 mg/kg
Hexavalent Chromium(Cr(VI))	IEC 62321:2008 Ed.1 Annex C	UV-Vis	2 mg/kg
Polybrominated iphenyls(P s)	IEC 62321:2008 Ed.1 Annex A	GC-MS	5 mg/kg
Polybrominated Diphenyl Ethers(P DEs)	IEC 62321:2008 Ed.1 Annex A	GC-MS	5 mg/kg

Test Result(s) Please refer to the following page(s).

Tested by



Approved by

Inspected by

Vargas

Date

Oct. 22, 2011

No. 13011568



Test Report

Report No. RLSZD001062640001

Page 2 of 4

Test Result(s)

Tested Item(s)	Content
Lead(Pb)	N.D.
Cadmium (Cd)	N.D.
Mercury(Hg)	N.D.
Hexavalent Chromium(Cr(VI))	N.D.
Tested Item(s)	Content
Polybrominated Biphenyls(PBBs)	
Monobromobiphenyl	N.D.
Dibromobiphenyl	N.D.
Tribromobiphenyl	N.D.
Tetrabromobiphenyl	N.D.
Pentabromobiphenyl	N.D.
Hexabromobiphenyl	N.D.
Heptabromobiphenyl	N.D.
Octabromobiphenyl	N.D.
Nonabromobiphenyl	N.D.
Decabromobiphenyl	N.D.
Tested Item(s)	Content
Polybrominated Diphenyl Ethers(PBDEs)	
Monobromodiphenyl ether	N.D.
Dibromodiphenyl ether	N.D.
Tribromodiphenyl ether	N.D.
Tetrabromodiphenyl ether	N.D.
Pentabromodiphenyl ether	N.D.
Hexabromodiphenyl ether	N.D.
Heptabromodiphenyl ether	N.D.
Octabromodiphenyl ether	N.D.
Nonabromodiphenyl ether	N.D.
Decabromodiphenyl ether	N.D.

Note: The sample had been dissolved totally tested for Lead, Cadmium, Mercury.

- MDL = Method Detection Limit
- N.D. = Not Detected (<MDL)
- mg/kg = ppm = parts per million

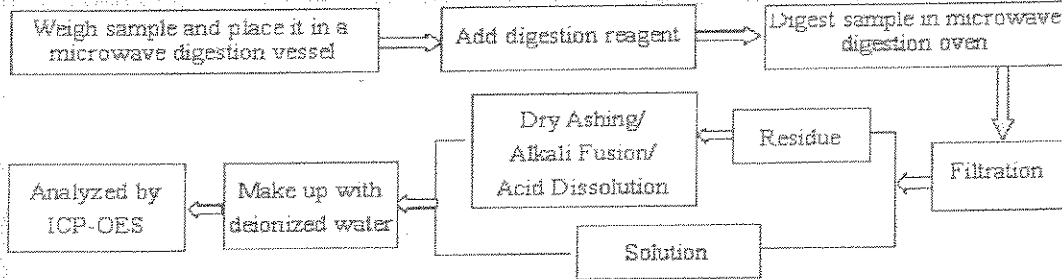
Test Report

Report No. RLSZD001062640001

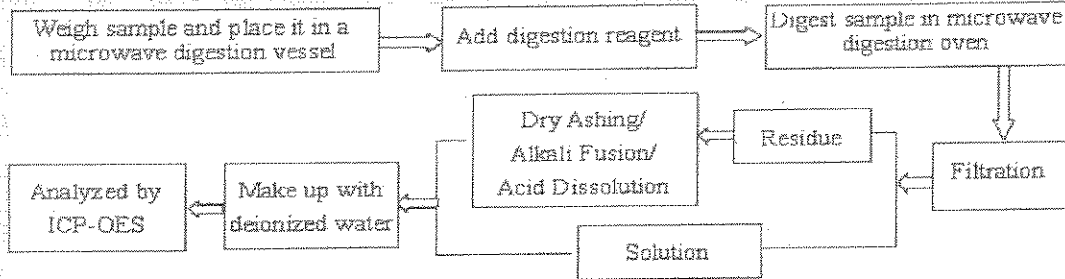
Page 3 of 4

Test Process

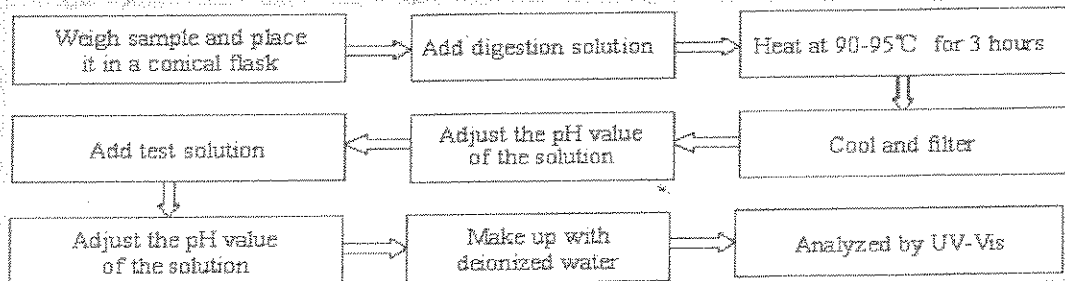
1. Lead(Pb), Cadmium(Cd)



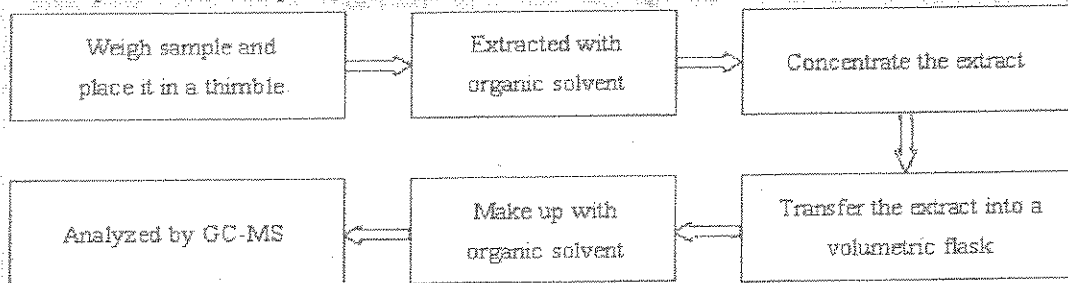
2. Mercury(Hg)



3. Hexavalent Chromium(Cr(VI))



4. Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers(PBDEs)

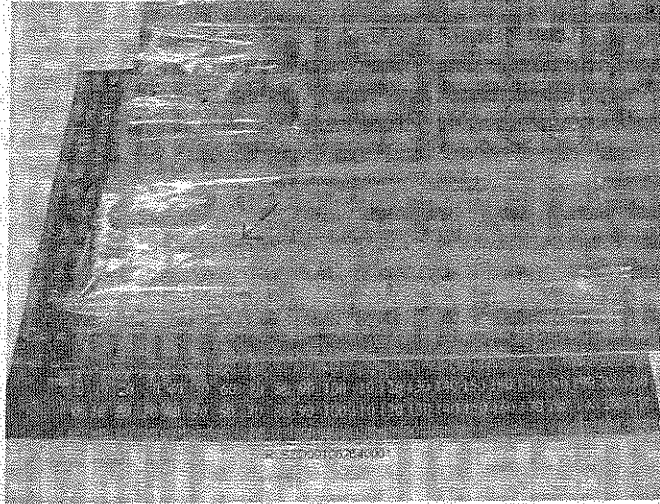


Test Report

Report No. RLSZD001062640001

Page 4 of 4

Photo(s) of the sample(s)



*** End of report ***

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Building C, Hongwei Industrial Zone, Baoan 70 District, Shenzhen



有效性未知
 For Question
 Please Contact with SGS
 www.tw.sgs.com

Test Report

No. : KA/2011/C1889

Date : 2012/01/02

Page: 1 of 6

CHI MEI CORPORATION
 59-1 SAN CHIA, JEN TE, TAINAN CITY 71702, TAIWAN

The following sample(s) was/were submitted and identified by/on behalf of the client as:

Sample Description : ACRYLONITRILE-BUTADIENE-STYRENE COPOLYMER
 Style/Item No. : POLYLAC® PA-757
 Sample Receiving Date : 2011/12/26
 Testing Period : 2011/12/26 TO 2012/01/02
 Sample Submitted By : CHI MEI CORPORATION

Test Requested : In accordance with the RoHS Directive 2011/65/EU Annex II

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

Conclusion : Based on the performed tests on submitted samples, the test results of Cadmium, Lead, Mercury, Hexavalent Chromium Cr(VI), PBBs and PBDEs comply with the limits as set by RoHS Directive 2011/65/EU Annex II; recasting 2002/95/EC.

Ray Chang

Ray Chang / Asst. Manager
 Signed for and on behalf of
 SGS Taiwan Limited



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Test Report

No. : KA/2011/C1889

Date : 2012/01/02

Page: 2 of 6

CHI MEI CORPORATION
59-1 SAN CHIA, JEN TE, TAINAN CITY 71702, TAIWAN

Test Result(s)

PART NAME No.1 : NATURE AYLONITRILE-BUTADIENE-STYRENE COPOLYMER

Test Item (s):	Unit	Method	MDL	Result	Limit
				No.1	
Cadmium (Cd)	mg/kg	With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.	100
Lead (Pb)	mg/kg	With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.	1000
Mercury (Hg)	mg/kg	With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.	1000
Hexavalent Chromium Cr(VI)	mg/kg	With reference to IEC 62321: 2008 and performed by UV-VIS.	2	n.d.	1000
Sum of PBBs	mg/kg		-	n.d.	1000
Monobromobiphenyl	mg/kg		5	n.d.	-
Dibromobiphenyl	mg/kg		5	n.d.	-
Tribromobiphenyl	mg/kg		5	n.d.	-
Tetrabromobiphenyl	mg/kg		5	n.d.	-
Pentabromobiphenyl	mg/kg		5	n.d.	-
Hexabromobiphenyl	mg/kg		5	n.d.	-
Heptabromobiphenyl	mg/kg		5	n.d.	-
Octabromobiphenyl	mg/kg		5	n.d.	-
Nonabromobiphenyl	mg/kg		5	n.d.	-
Decabromobiphenyl	mg/kg		5	n.d.	-
Sum of PBDEs	mg/kg	With reference to IEC 62321: 2008 and performed by GC/MS.	-	n.d.	1000
Monobromodiphenyl ether	mg/kg		5	n.d.	-
Dibromodiphenyl ether	mg/kg		5	n.d.	-
Tribromodiphenyl ether	mg/kg		5	n.d.	-
Tetrabromodiphenyl ether	mg/kg		5	n.d.	-
Pentabromodiphenyl ether	mg/kg		5	n.d.	-
Hexabromodiphenyl ether	mg/kg		5	n.d.	-
Heptabromodiphenyl ether	mg/kg		5	n.d.	-
Octabromodiphenyl ether	mg/kg		5	n.d.	-
Nonabromodiphenyl ether	mg/kg		5	n.d.	-
Decabromodiphenyl ether	mg/kg		5	n.d.	-

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No. : KA/2011/C1889

Date : 2012/01/02

Page: 3 of 6

CHI MEI CORPORATION

59-1 SAN CHIA, JEN TE, TAINAN CITY 71702, TAIWAN

Note :

1. mg/kg ppm : 0.1wt% 1000ppm
2. n.d. Not Detected
3. MDL Method Detection Limit
4. " - " Not Regulated

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Test Report

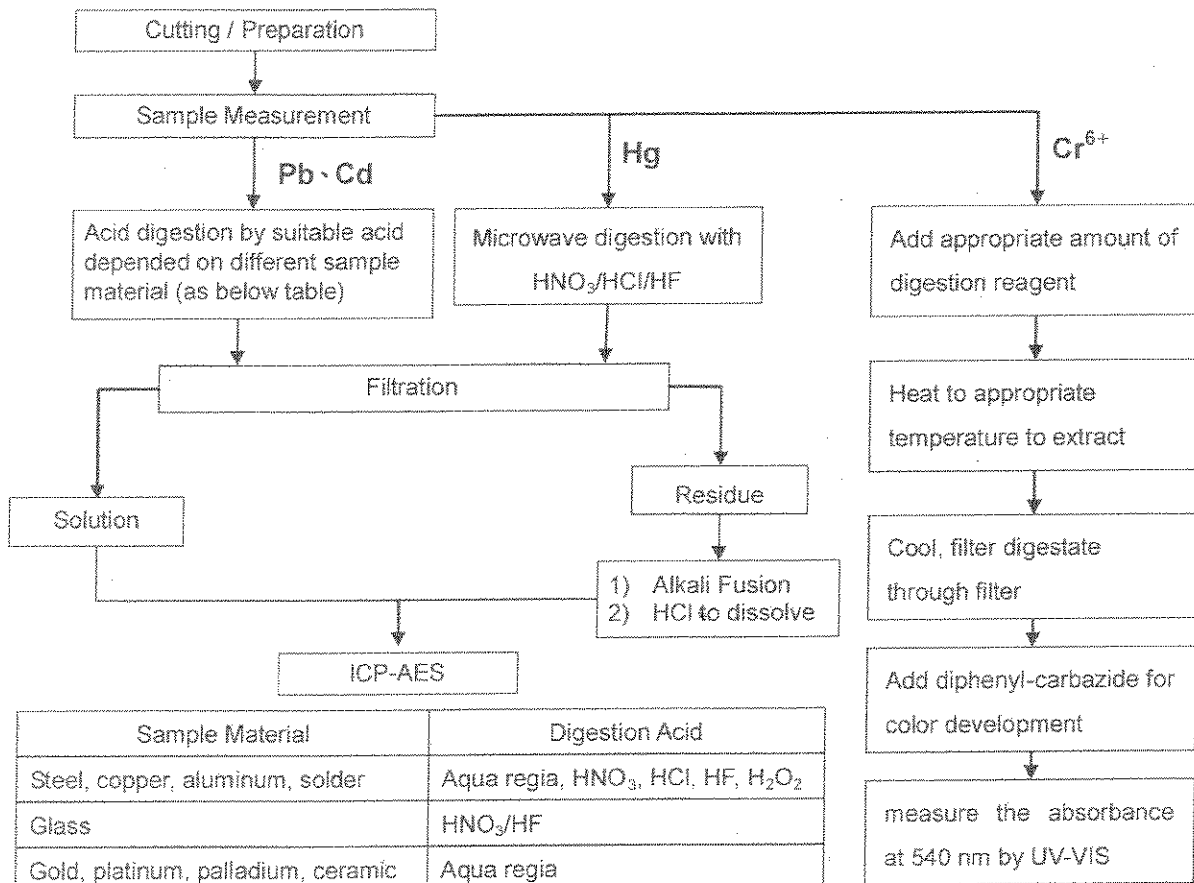
No. : KA/2011/C1889

Date : 2012/01/02

Page: 4 of 6

CHI MEI CORPORATION
59-1 SAN CHIA, JEN TE, TAINAN CITY 71702, TAIWAN

- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr⁶⁺ test method excluded)
- 2) Name of the person who made measurement: Alex Chang
- 3) Name of the person in charge of measurement: Ray Chang



Sample Material	Digestion Acid
Steel, copper, aluminum, solder	Aqua regia, HNO ₃ , HCl, HF, H ₂ O ₂
Glass	HNO ₃ /HF
Gold, platinum, palladium, ceramic	Aqua regia
Silver	HNO ₃
Plastic	H ₂ SO ₄ , H ₂ O ₂ , HNO ₃ , HCl
Others	Any acid to total digestion

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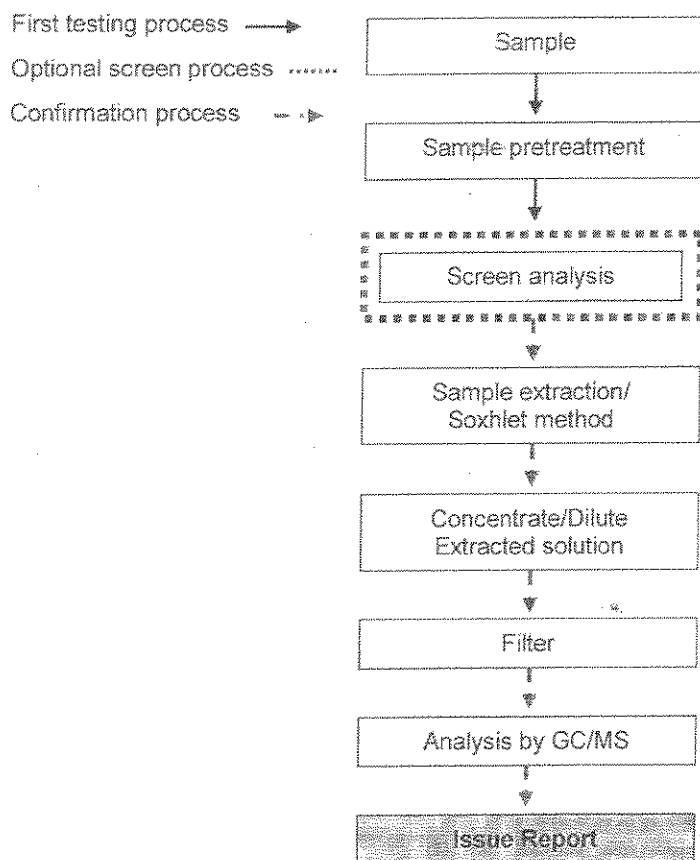
Date : 2012/01/02

Page: 5 of 6

CHI MEI CORPORATION
59-1 SAN CHIA, JEN TE, TAINAN CITY 71702, TAIWAN

PBB/PBDE analytical FLOW CHART

- Name of the person who made measurement: Anson Tsao
- Name of the person in charge of measurement: Ray Chang



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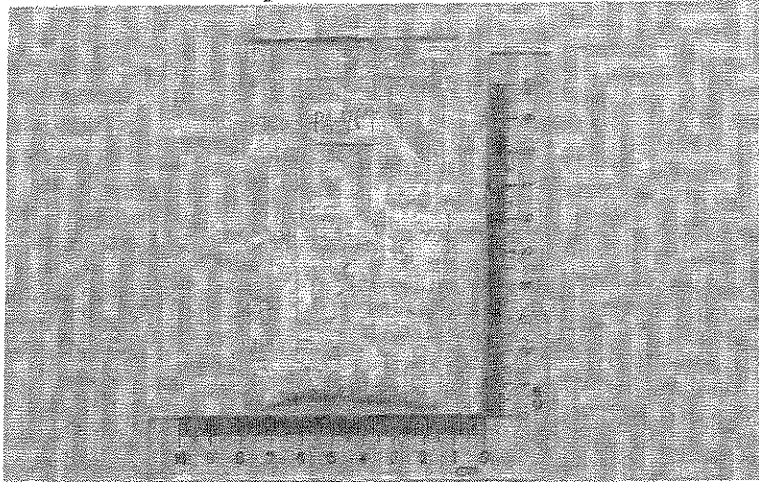
Date : 2012/01/02

Page: 6 of 6

CHI MEI CORPORATION
59-1 SAN CHIA, JEN TE, TAINAN CITY 71702, TAIWAN

* The tested sample / part is marked by an arrow if it's shown on the photo. *

KA/2011/C1889



** End of Report. **

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检测报告

报告编号: RLSZE001324880007C

第1页 共5页

申请单位 深圳市三利谱光电科技股份有限公司
 地址 深圳市光明新区公明办事处楼村社区第二工业区同富一路5号第1-9栋

以下测试之样品及样品信息由申请者提供并确认

样品名称 偏光片
 样品型号 请参见第4页。
 样品接收日期 2012.06.18
 样品检测日期 2012.06.18-2012.06.21

检测要求 根据客户要求, 对所提交样品中的铅(Pb), 镉(Cd), 汞(Hg), 六价铬(Cr(VI)), 多溴联苯(PBBs), 多溴二苯醚(PBDEs)进行测试。

检测依据

测试项目	测试方法	测试仪器	方法检测限
铅(Pb)	IEC 62321:2008 Ed.1 Sec.8	ICP-OES	2 mg/kg
镉(Cd)	IEC 62321:2008 Ed.1 Sec.8	ICP-OES	2 mg/kg
汞(Hg)	IEC 62321:2008 Ed.1 Sec.7	ICP-OES	2 mg/kg
六价铬(Cr(VI))	IEC 62321:2008 Ed.1 Annex C	UV-Vis	2 mg/kg
多溴联苯(PBBs)	IEC 62321:2008 Ed.1 Annex A	GC-MS	5 mg/kg
多溴二苯醚(PBDEs)	IEC 62321:2008 Ed.1 Annex A	GC-MS	5 mg/kg

检测结果 请参见下页。

主 检

林瑞坤

审 核

何贵兵

批 准

刘少蔚

日 期

2012.06.21

刘少蔚
技术经理



深圳市华测检测技术股份有限公司

No. 38793754
广东省深圳市宝安区 70 区鸿威工业园

检测报告

报告编号 RLSZE001324880007C
检测结果

第2页 共5页

测试项目	含量
铅(Pb)	N.D.
镉(Cd)	N.D.
汞(Hg)	N.D.
六价铬(Cr(VI))	N.D.

测试项目	含量
多溴联苯(PBBs)	
一溴联苯	N.D.
二溴联苯	N.D.
三溴联苯	N.D.
四溴联苯	N.D.
五溴联苯	N.D.
六溴联苯	N.D.
七溴联苯	N.D.
八溴联苯	N.D.
九溴联苯	N.D.
十溴联苯	N.D.
多溴二苯醚(PBDEs)	
一溴二苯醚	N.D.
二溴二苯醚	N.D.
三溴二苯醚	N.D.
四溴二苯醚	N.D.
五溴二苯醚	N.D.
六溴二苯醚	N.D.
七溴二苯醚	N.D.
八溴二苯醚	N.D.
九溴二苯醚	N.D.
十溴二苯醚	N.D.

测试样品/部位描述 灰色塑料片

注释: 对于检测铅, 镉, 汞之样品已完全溶解。
-N.D. 未检出 (小于方法检测限)
-mg/kg ppm 百万分之几

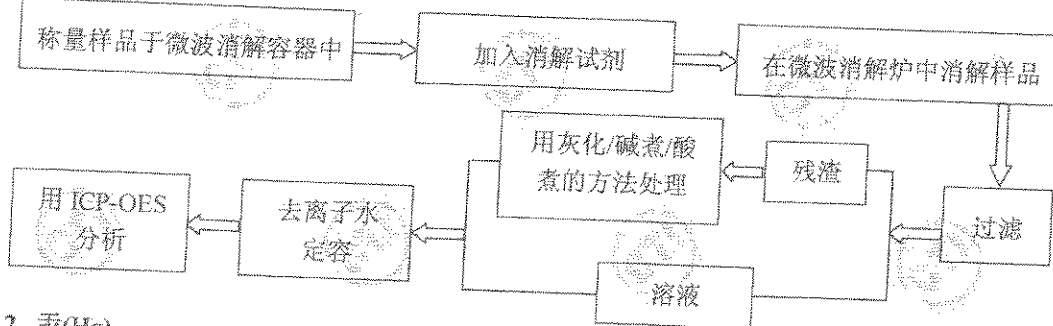
备注: 报告编号中“C”表示此报告为中文版本。

检测报告

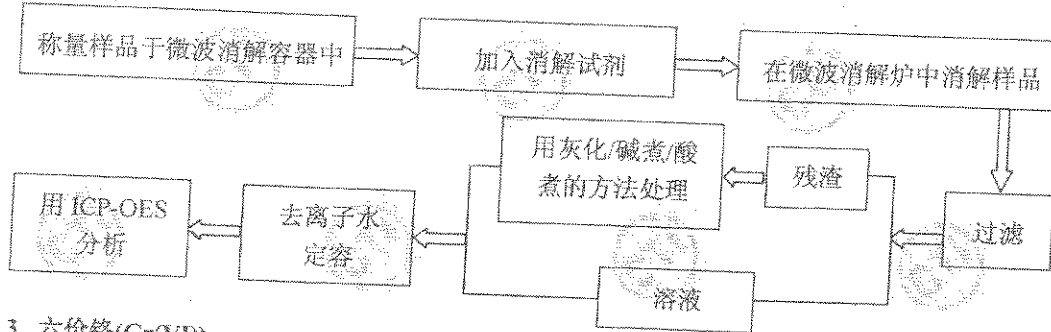
报告编号: RLSZE001324880007C
检测流程

第3页 共5页

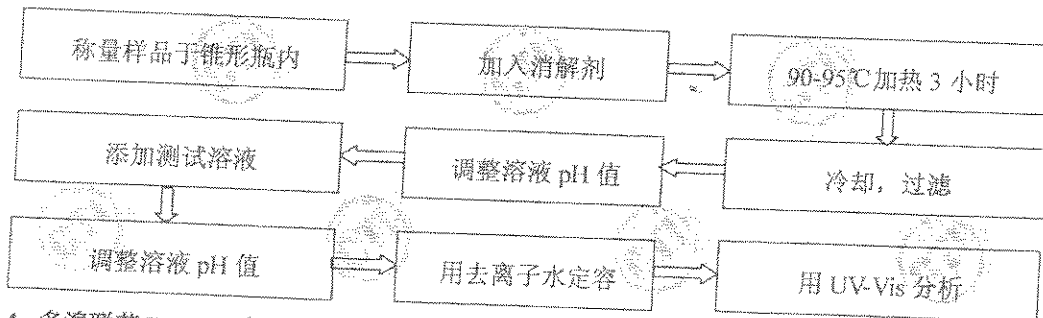
1. 铅(Pb), 镉(Cd)



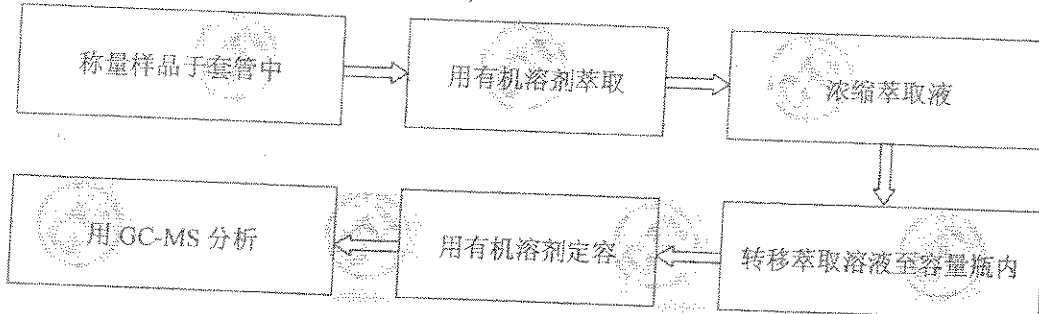
2. 汞(Hg)



3. 六价铬(Cr(VI))



4. 多溴联苯(PBBs), 多溴二苯醚(PBDEs)



检测报告

报告编号 RLSZE001324880007C

第4页 共5页

样品型号

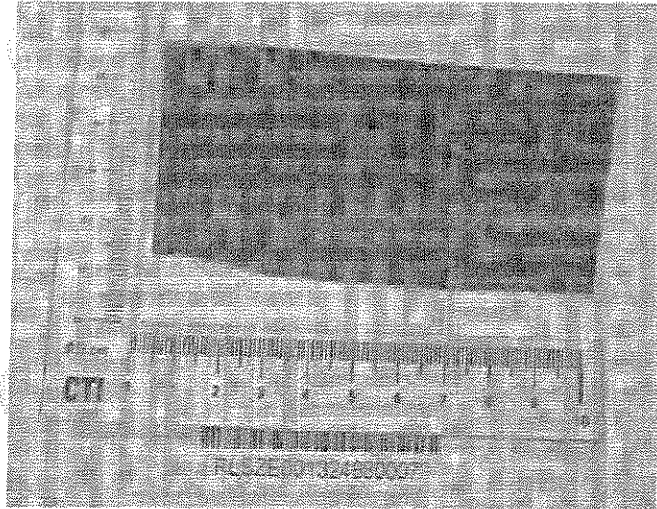
SLP-F5215ASRD83-161-R SLP-F5115RD33 SLP-F5115RD34
SLP-F5215RD02 SLP-F5215RD03 SLP-F5215RD33 SLP-F5215RD34
SLP-F5215ASRD59 SLP-F5215ASRD60 SLP-F5215RD165
SLP-5115RD162 SLP-F5115RD166 SLP-F5215RD72-R
SLP-F5215RD73-L SLP-F5215RD85-R SLP-F5215RD86-L
SLP-F5215ASRD33-R SLP-F5215ASRD34-L SLP-F5215ASRD81-R
SLP-F5215ASRD82-L SLP-F5215ASRD83-161-R
SLP-F5215ASRD84-161-L SLP-F5215ASRD85-R
SLP-F5215ASRD86-L SLP-F5215RD31-R SLP-F5215RD32-L
SLP-F5215RD70-161-R SLP-F5215RD71-161-L SLP-F5215RD87-R
SLP-F5215RD88-L SLP-F5215RD89-R SLP-F5215RD90-L
SLP-F5215ASRD81-R SLP-F5215ASRD82-L SLP-F5215AS
SLP-F5215RD173 SLP-F5315AS2 SLP-F5215RD70-161T-R
SLP-F5215RD71-161T-L SLP-F5215RD202-R SLP-F5215RD203-L
SLP-F5215ASRD83-161T-R SLP-F5215ASRD84-161T-L SLP-F5415AS
SLP-F5315AS1 SLP-RD148AS SLP-F5315AS SLP-F5315ASRD179-R
SLP-F5315ASRD180-L SLP-F5315ASRD186-R SLP-F5315ASRD187-L
SLP-F5315ASRD188-R SLP-F5315ASRD189-L SLP-F5415ASRD190-R
SLP-F5415ASRD191-L SLP-F5415ASRD192-R;
SLP-F5415ASRD193-L

检测报告

报告编号: RLSZE001324880007C

第5页 共5页

样品图片



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