ACC[®]鑫宇环检测 Attestation of Global Compliance

Test Report

Report No.: AGC03778180401-001S1

Date: May 14, 2018

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Applicant:

Address:

Report on the submitted samples said to be:

Sample Name :	Sunglasses, classic model. With silver parts on the front at the left and right side of the
Sample Name	glasses.
Model :	MO 7455
Item No.	9672
Country of origin :	CHINA
Country of destination :	EUROPE
Sample Receiving Date :	Apr.26, 2018
Testing Period :	Apr.26, 2018 to May 11, 2018
Test Method :	Please refer to next page(s).
Test Result :	Please refer to next page(s).

Test Requested:

ISO 12312-1:2013+A1:2015, excluding: Clause 12 Information and Labeling

Conclusion

Pass

Reported by: Charel

Yaoxianglan, Chanel.Yao

Reporter

Reviewed by:

Huangguohua

Vice Laboratory Manager

Approved by Dy. Lill

Liujinliang, Jay.Liu Laboratory Supervisor



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No.

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Tests Conducted Summary

1. Requirements for Sunglasses

Test standard:

- ISO 12312-1:2013+A1:2015 Eye and face protection Sunglasses and related eyewear Part 1 Sunglasses for general use
- ISO 12311:2013 Personal protective equipment Test methods for Sunglasses and related eyewear
- Note: The applicant's attention was drawn that the manufacturer should not use the frame materials which are known to cause irritation, allergic or toxic reaction during wear in a normal state of health against significant proportion of users.

CLAUSES	RI	EQUIREMENTS	RESULT
4 Construction	on and materials		estation SC
4.1	Construction		Р
4.2	Filter material and surface qualit	y	P The
4.3	Physiological compatibility (Nic	kel Release)	NA
5 Transmitta	nce		30
5.2	Transmittance and filter	Filter categories	Cat.3
5.2	categories	UV requirements	T P
5.3 General	transmittance requirements		
5.3.1	Uniformity of luminous transmit	tance	Р
C.C Mostal	GC A	5.3.2.2 Spectral transmittance	P the bound
5.3.2	Requirements for road use and driving	5.3.2.3 Detection of signal lights	Р
the man		5.3.2.4 Driving in twilight or at night	NA
Giobal Contr	Additional transmittance	5.3.4.1 Photochromic filters	MA NA
5.3.4	requirements for specific filter	5.3.4.2 Polarizing filters	NA
1	types	5.3.4.3 Gradient filters	NA
6 Refractiv	e power		
6.1	Spherical and astigmatic power	The second second	P
6.2	Local variations in refractive pov	wer Standarden Carteria	P C
6.3	Prism imbalance (relative prism	error)	Р

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Tests Conducted Summary

CLAUSES	REQUIREMENTS	RESULT
7 Robustness	S THE TANK Comments II A the comments	C Anestador of Cal
7.1	Minimum robustness of filters	Р
7.2	Frame deformation and retention of filters	Р
8	Resistance to solar radiation	Part of the second seco
9	Resistance to ignition	Р
11 Protective	e requirements	The to manage
11.1	Coverage area	There are come
12 Informati	on and labeling	
12.1	Information to be supplied with each pair of sunglasses	NR
12.2	Additional information	NR

Remark: P=Pass; F=Fail; NA=Not Applicable; NR=Not Require; X=Checked; Cat.=Category;

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Test Results

Construction — Clause 4.1 and Filter material and surface quality — Clause 4.2

Sample No.	-111		Defects	The Company	The Complete	
	Construction Film		Filter Material an	d Surface Quality	Comment	Result(s)
	Observed	Absent	Observed	Absent	in the second seco	
01		X	and the	X	The total Company	P

Requirements:

- 1. Construction shall be smooth and without sharp projections;
- 2. Filter material and surface quality: Except in a marginal area 5 mm wide, sunglass filters shall have no material or machining defects within an area of 30mm diameter around the reference point that may impair vision, e.g. bubbles, scratches, inclusions, dull spots, pitting, mould marks, notches, reinforced points, specks, beads, water specks, pocking, gas inclusions, splintering, cracks, polishing defects or undulations.

Transmittance and filter categories — Clause 5.2

Sample No.: 01

Sample No.: 01	A CONTRACTOR OF A	Surface Con	- CO	
Test Items	Requirements	Left	Right	Result(s)
	For Cat. 0: 80.0~100			SL pplance
Luminous	For Cat. 1: 43.0~80.0			C AN
transmittanceτ _v	For Cat. 2: 18.0~43.0	9.3	9.3	Cat.3
(380~780)nm (%)	For Cat. 3: 8.0~18.0	9.5	9.5	Cal.5
G The second	For Cat. 4: 3.0~8.0			The the compile
Filter categories	Claimed Cat.: (Not Provided)	The Completion	The Completion Completion	testation of G
$\tau_{\rm SUVB}$	For Cat.0, 1: $\leq 0.05\tau_v$			
(280~315)nm (%)	For Cat.2: 1.0% absolute or $0.05\tau_v$	0.0	0.0	Р
	whichever is greater;			0
	For Cat.3, 4:1.0% absolute	En terpland	a a contraction	Allestan
	For Cat.0, $1 \le \tau_v$;			50
$ au_{ m SUVA}$	For Cat.2, $3 \ge 0.5\tau_v$	0.0	0.0	Р
(315~380)nm (%)	For Cat.4: 1.0% absolute or $0.25\tau_v$	0.0		WEL THE
S	whichever is greater		K Computance	Dal Complex
τ_{sb}	The Barrier The	7.8	8.1	Only Ref.
(380~500)nm (%)	O the Fred California California California	7.0	0.1	Omy Ref.

Measurement Uncertainty (if necessary):

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Test Results

Uniformity of luminous transmittance — Clause 5.3.1

Sample No.: 01	The the second comments of the second com	pland B F Sol	Global Comp	Allestation C	
Test Items	Requirements	Left	Right	Result(s)	
Difference within filter (%) (relative to higher value)	The relative difference in the luminous transmittance value shall not be greater than 10%, except for Cat. 4 where it shall not be greater than 20%	5 4.1 A.1	5.0	CP 1	
Difference with mounted filters (relative to higher value)	The relative difference between the luminous transmittance value of the visual center for right and left eye shall not exceed 15%	C Frankrad	CC *	For the state of t	

Measurement Uncertainty (if necessary):

Requirements for road use and driving — Clause 5.3.2

Sample No.: 01

omp. Attests			
Requirements	Left	Right	Result(s)
Filters suitable for road use and driving shall be categories 0, 1, 2 or 3	Cat.3	Cat.3	P P
$\geq 0.2\tau_{v}$	7.6 $(0.2\tau_v=1.9)$	7.8 ($0.2\tau_v=1.9$)	Р
≧0.80	1.152	1.150	Attestation of Glou
≧0.60	0.991	0.991	
≥0.60	1.004	1.004	P ® 🎪
≥0.60	1.147	1.147	
$\tau_v \ge 75\%$	9.3	9.6	NA
	Filters suitable for road use and driving shall be categories 0, 1, 2 or 3 $\geq 0.2\tau_v$ ≥ 0.80 ≥ 0.60 ≥ 0.60 ≥ 0.60	Filters suitable for road use and driving shall be categories 0, 1, 2 or 3Cat.3 $\geq 0.2\tau_v$ 7.6 $(0.2\tau_v=1.9)$ ≥ 0.80 1.152 ≥ 0.60 0.991 ≥ 0.60 1.004 ≥ 0.60 1.147 $\tau_v \geq 75\%$ 9.3	Filters suitable for road use and driving shall be categories 0, 1, 2 or 3Cat.3Cat.3 $\ge 0.2\tau_v$ 7.6 $(0.2\tau_v=1.9)$ 7.8 $(0.2\tau_v=1.9)$ ≥ 0.80 1.1521.150 ≥ 0.60 0.9910.991 ≥ 0.60 1.0041.004 ≥ 0.60 1.1471.147 $\tau_v \ge 75\%$ 9.39.6

Measurement Uncertainty (if necessary):

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Test Results

Test Results

Refractive power — Clause 6

Sample No.: 01

Test I	tems	Re	quirements	Left	Right	Result(s)
		± 0.12D		+0.06	+0.05	Р
Spherical Power	(D)	MA CO-	e between the spherical not exceed 0.18 D;	0.	01	Р
Astigmatic Powe	er (D)	≦0.12D		0.00	0.00	Р
			1*	+0.03	0.00	not alobal
A AL	Spherical	O TAD	2*	-0.01	+0.01	
Coline B Alestationd	Power	± 0.12D	3*	+0.04	+0.02	– Р
Local variations			4*	+0.01	+0.01	D Allestation of Close
in refractive power (D)	Astigmatic Power	plance C Allest	1*	0.01	0.02	
A Stranger of Oct of		$\geq 0.12D$	2*	0.02	0.02	The Alexander
L.O.			3*	0.05	0.02	
A F A			4*	0.03	0.03	
Prism imbalance			Base Out: <1.00	0.05		The the
		Horizontal	Base In: <0.25			Р
(cm/m)		Vertical <0.25				

Measurement Uncertainty (if necessary):

Note: * See figure:

Key: A=Reference points X=Measure point



Figure: Measuring location of refractive power

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Test Results

Minimum robustness of filters — Clause 7.1

Sample No.	Def	ects	Construct the	D esult(s)	
	Observed	Absent	Comment	Result(s)	
01	Giobal Comt	X		Р	

Requirements:

None of the following defects shall appear on filters :

- 1. Filter fracture;
- 2. Filter deformation;

Frame deformation and retention of filters — Clause 7.2

	Boxed Center	Residual	Deformation	Strue	cture 🛷	Lens R	etention	
Sample No.	Distance C (mm)	Deformation X (mm)	Percentage Φ(%)	Pass	Fail	Pass	Fail	Result(s)
01	73.64	0.15	0.2	X		X	HEL THE	P

Requirements:

1. Be permanently deformed from its original configuration by not more than 2% of the distance C,. Deformation percentage Φ ; Calculation: Φ (%) =X/C*100

2. No fracture or crack at any point;

3. No filter shall be displaced from the frame.

Measurement Uncertainty (if necessary):

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Resistance to Radiation — Clause 8

Test It	ems	Requirem	ents	Left	Right	Result(s)
		For Cat. 0: <±3%	Before exposure	9.3	9.6	testatio.
The relative ch luminous trans	SW Co.	For Cat. 1: $<\pm 5\%$ For Cat. 2: $<\pm 8\%$	After exposure	9.4	9.6	Р
Turrinous trans	sinittanee	For Cat. 2. $<\pm 3/6$ For Cat. 3, 4: $<\pm 10\%$	Difference	1.1	0.0	2
Requirements for the ultraviolet	τ _{SUVB} (280~315) nm (%)	The company is What	solute or $0.05\tau_v$ ver is greater; lute	0.0	0.0	3 ^C P
spectral range for τ_v (%)	τ _{SUVA} (315~380) nm (%)	For Cat. 0,1: $\leq \tau_v$; For Cat. 2, 3: $\leq 0.5\tau_v$ For Cat. 4: 1.0% abso whichever	lute or $0.25\tau_v$ is greater;	0.0	50 ^{0.0}	РС

Measurement Uncertainty (if necessary):

Test Results

Ignition — Clause 9

P	Sample No	Continued	Combustion	Comment	Result(s)	
	Sample No.	Yes	No	Comment		
	01	C Freedom of Car	X		Р	

Requirements:

The filters and frame shall be no continued combustion after withdrawal of the test rod.

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Coverage area — Clause 11.1

	Туре	Test	Coveraş	ge Area		D	
Sample No.	(Adults/Children)	Position	Pass Fail		Comment	Result(s)	
	The the partice	Left	X O	Find Global C	Contraction of the second	Р	
01	Adults	Right	X	G		Р	

Requirements:

- 1. Adults' sunglasses shall cover two ellipses of horizontal diameter of 40mm and a vertical diameter of 28mm, the centres of which are separated 64mm and symmetrically placed on either side of the centre of the nose bridge of the frame.
- 2. Children's sunglasses shall cover two ellipses of horizontal diameter of 34mm and a vertical diameter of 24mm, the centres of which are separated 54mm and symmetrically placed on either side of the centre of the nose bridge of the frame.

This report is to supersede the report with No.: AGC03778180401-001 dated on May 11, 2018.



The photo of the sample



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Test Report

Report No.: AGC03778180401-002S1

Date: May 14, 2018

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Applicant:

Address:

Report on the submitted samples said to be:

Sample Name :	Sunglasses, classic model. With silver parts on the front at the left and right side of the
Sample Name .	glasses.
Model :	MO 7455
Item No.	9672
Country of origin :	CHINA
Country of destination :	EUROPE
Sample Receiving Date :	Apr.26, 2018
Testing Period :	Apr.26, 2018 to May 11, 2018
Test Method :	Please refer to next page(s).
Test Result :	Please refer to next page(s).

Test Requested:

UV400 (In-house test, and test method refer to attached pages for details)

Conclusion:

Pass

Reported by: Charel. Yas

Reviewed by:

Yaoxianglan, Chanel.Yao Reporter Huangguohua

Vice Laboratory Manager

opliance (S/ Approved by - Liu Liujinliang, Jay.Liu

Laboratory Supervisor



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Tests Conducted Summary

UV400(In-house test, non-accredited test item)

As requested by the applicant, refer to test procedure of "Resistance to Radiation" in this report, assessment was made against a level of 100% UV protection, in which the spectral transmittance was examined within a range of 280nm-400nm before and after exposure.

Course Number	Wavelength	Maximum Spectr	ral transmittance (%)	Dogult
Sample Number Wavelength (nm)	Left	Result		
01	280-400	0.0	0.0	P
Requirements:	C # Junon of Gobal Con	Anterestina de la como	SO	

Maximum spectral transmittance shall not exceed 0.5%.

Measurement Uncertainty (if necessary):

This report is to supersede the report with No.: AGC03778180401-002 dated on May 11, 2018.

The photo of the sample





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No.18 C



Report No.: AGC03778190202-001

Date: Feb.15, 2019

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Applicant: Address:

Report on the submitted samples said to be:

Sample Name	:	Classic fashion sunglasses
Model No.		M07455
Item No	:	9672
Country of Origin		CHINA
Country of Destination	:	EUROPE
Sample Receiving Date	:	Feb.12, 2019
Testing Period		Feb.12, 2019 to Feb.15, 201
Test site	÷	

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

	Complian	ce (Shenzhe
Approved by	Del Glores	The suda Tech
Liulinwen, L	envis	ST.S.
Technical Di	rector	



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Test Requested:

- 1. As specified by client, to determine the Cadmium(Cd)content in the Submitted sample(s) with reference to entry 23, Annex XVII of the REACH Regulation (EC) No 1907/2006.
- 2. As specified by client, to determine the Polycyclic Aromatic Hydrocarbons (PAHs) content in the submitted sample(s) with reference to entry 50, Annex XVII of the REACH Regulation (EC) No 1907/2006.
- 3. As specified by client, to determine the phthalates content in the submitted sample(s) with reference to entry 51 and its amendment (EU)2018/2005& entry 52, Annex XVII of the REACH Regulation (EC) No 1907/2006 and Amendment Regulation (EC) No 552/2009.

Conclusion

Pass

Pass

Pass

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Test Result(s):

1. Test Result(s) of Cd:

Test item(s)	Test Method/	MDI	1	1000	Result(s)	-	Unit: mg/k
	Equipment	MDL	1-1	1-2	1-3	1-4	1-5	Limit
Cadmium (Cd)	Refer to	5	N.D.	N.D.	N.D.	N.D.	N.D.	100
Conclusion	- IEC 62321:5-2013 ICP-OES	1	Pass	Pass	Pass	Pass	Pass	1

5	1231	18 C	100	/	- 62	<u></u>	F	Unit: mg/kg
Test item(s)	Test Method/	MDL	X		Result(s)		Limit
	Equipment	MDL	1-6	1-7	1-8	1-9	1-12	
Cadmium (Cd)	Refer to	5	N.D.	N.D.	N.D.	N.D.	N.D.	100
Conclusion	IEC 62321:5-2013 ICP-OES	61	Pass	Pass	Pass	Pass	Pass	1.0

1 A.	1 A	V.	9 . · · ·	Unit: mg/kg	
Test item(s)	Test Method/	MDL	Result(s)		Limit
	Equipment		1-10	1-11	Limit
Cadmium (Cd)	Refer to IEC 62321:5-2013	5	N.D.	N.D.	100
Conclusion	ICP-OES	40	Pass	Pass	21

1. MDL=Method Detection Limit Note:

2. N.D.=Not Detected(less than method detection limit)

3. As specified by client, only test the designated sample

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Unit: malka

2. Test result of Polycyclic Aromatic Hydrocarbons (PAHs)

	- Ci			$-\mathcal{D}$	-		Unit:	mg/kg
Test Item(s)	Test Method	MIDI	4	Result(s)			1	
Test Item(s)	/Equipment	MDL	1-1	1-2	1-3	1-4	1-5	Limit
Benzo[a]anthracene (BaA)	Refer to	0.1	N.D.	N.D.	N.D.	N.D.	N.D.	1
Chrysene (CHR)		0.1	N.D.	N.D.	N.D.	N.D.	N.D.	1
Benzo[b]fluoranthene (BbFA)		0.1	N.D.	N.D.	N.D.	N.D.	N.D.	1
Benzo[k]fluoranthene (BkFA)		0.1	N.D.	N.D.	N.D.	N.D.	N.D.	1
Benzo[j]fluoranthene (BjFA)	AfPS GS 2014:01	0.1	N.D.	N.D.	N.D.	N.D.	N.D.	1
Benzo[a]pyrene (BaP)	РАК	0.1	N.D.	N.D.	N.D.	N.D.	N.D.	1
Benzo[e]pyrene(BeP)	GC-MS	0.1	N.D.	N.D.	N.D.	N.D.	N.D.	1
Dibenzo[a,h]anthracene (DBAhA)	1. S.	0.1	N.D.	N.D.	N.D.	N.D.	N.D.	1
Sum of 8 PAHs			N.D.	N.D.	N.D.	N.D.	N.D.	1
Conclusion	20	155	Pass	Pass	Pass	Pass	Pass	1

	Test Method	MDI		.01	Result(s)			
Test Item(s)	/Equipment	MDL	1-6	1-7	1-8	1-9	1-12 Li	Limit
Benzo[a]anthracene (BaA)	10	0.1	N.D.	N.D.	N.D,	N.D.	N.D.	1
Chrysene (CHR)	Refer to	0.1	N.D.	N.D.	N.D.	N.D.	N.D.	1
Benzo[b]fluoranthene (BbFA)		0.1	N.D.	N.D.	N.D.	N.D.	N.D.	1
Benzo[k]fluoranthene (BkFA)		0.1	N.D.	N.D.	N.D.	N.D.	N.D.	1
Benzo[j]fluoranthene (BjFA)	AfPS GS 2014:01	0.1	N.D.	N.D.	N.D.	N.D.	N.D.	1
Benzo[a]pyrene (BaP)	РАК	0.1	N.D.	N.D.	N.D.	N.D.	N.D.	1
Benzo[e]pyrene(BeP)	GC-MS	0.1	N.D.	N.D.	N.D.	N.D.	N.D.	1
Dibenzo[a,h]anthracene (DBAhA)	200	0.1	N.D.	N.D.	N.D.	N.D.	N.D.	1
Sum of 8 PAHs			N.D.	N.D.	N.D.	N.D.	N.D.	1
Conclusion		/	Pass	Pass	Pass	Pass	Pass	1

Note: 1. MDL=Method Detection Limit

2. N.D.=Not Detected(less than method detection limit)

3. As specified by client, only test the designated sample.

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Unit: %, w/w

3. Test result of phthalates content

	-0	R		- 6			Unit: 🦻	ó, w/w
Tart Horn (a)	Test Method/	MDL	5]	Result(s	s)	- 242	T days 14
Test Item(s)	Equipment	MDL	1-1	1-2	1-3	1-4	1-5	Limit
Dibutyl phthalate (DBP)	C 200	0.01	N.D.	N.D.	N.D.	N.D.	N.D.	
Butylbenzyl phthalate (BBP)		0.01	N.D.	N.D.	N.D.	N.D.	N.D.	
Di- (2-ethylhexyl) phthalate (DEHP)		0.01	N.D.	N.D.	N.D.	N.D.	N.D.	0.1
Diisobutyl phthalate (DIBP)		0.01	N.D.	N.D.	N.D.	N.D.	N.D.	
Sum of DBP+BBP+DEHP+DIBP	Refer to	CY.	N.D.	N.D.	N.D.	N.D.	N.D.	
Di-n-octyl phthalate (DNOP)	EN 14372:2004 GC-MS	0.01	N.D.	N.D.	N.D.	N.D.	N.D.	
Di-isononyl phthalate (DINP)	. 4 ³	0.01	N.D.	N.D.	N.D.	N.D.	N.D.	
Di-isodecyl phthalate (DIDP)	SOC *	0.01	N.D.	N.D.	N.D.	N.D.	N.D.	
Sum of DNOP+DINP+DIDP			N.D.	N.D.	N.D.	N.D.	N.D.	
Conclusion	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	1	Pass	Pass	Pass	Pass	Pass	1

	Test Method/	MDI		Result(s)			T	
Test Item(s)	Equipment	MDL	1-6	1-7	1-8	1-9	1-12	Limit
Dibutyl phthalate (DBP)	Refer to	0.01	N.D.	N.D.	N.D.	N.D.	N.D.	32
Butylbenzyl phthalate (BBP)		0.01	N.D.	N.D.	N.D.	N.D.	N.D.	تد. ح
Di- (2-ethylhexyl) phthalate (DEHP)		0.01	N.D.	N.D.	N.D.	N.D.	N.D.	
Diisobutyl phthalate (DIBP)		0.01	N.D.	N.D.	N.D.	N.D.	N.D.	
Sum of DBP+BBP+DEHP+DIBP		E.	N.D.	N.D.	N.D.	N.D.	N.D.	0.1
Di-n-octyl phthalate (DNOP)	EN 14372:2004 GC-MS	0.01	N.D.	N.D.	N.D.	N.D.	N.D.	0-
Di-isononyl phthalate (DINP)	5	0.01	N.D.	N.D.	N.D.	N.D.	N.D.	
Di-isodecyl phthalate (DIDP)	1.0	0.01	N.D.	N.D.	N.D.	N.D.	N.D.	
Sum of DNOP+DINP+DIDP	,G	×4	N.D.	N.D.	N.D.	N.D.	N.D.	0.1
Conclusion		/	Pass	Pass	Pass	Pass	Pass	1

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Note: 0.1%,w/w =1000mg/kg 1.

- MDL=method detection limit 2.
- 3. N.D.=not detected (less than method detection limit)
- "-" =Not regulated 4.
- As specified by client, only test the designated sample 5.

Sample Description

1-1	Black plastic frame	
1-2	White plastic frame	
1-3	Blue plastic frame	
1-4	Yellow plastic frame	
1-5	Orange plastic frame	100
1-6	Red plastic frame	
1-7	Pink plastic frame	1
1-8	Lime plastic frame	
1-9	Purple plastic frame	
1-10	Silver coating	
1-11	Metal pin	
1-12	Black plastic len	

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The photo of the sample



AGC03778190202-001 AGC authenticate the photo on original report only *** End of Report***

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