

Report No.: AGC03778180401-001S1 Date: May 14, 2018 Page 1 of 10

Applicant:

Address:

Report on the submitted samples said to be:

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: Conclusion:

ISO 12312-1:2013+A1:2015, excluding:

- Clause 12 Information and Labeling

Pass

Reported by: Charel. Yas Reviewed by: humg

Yaoxianglan, Chanel. Yao Huangguohua

Reporter Vice Laboratory Manager

Liujinliang, Jay.Liu

Laboratory Supervisor

Approved by Jost L'u



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No.18 C



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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	R	RESULT	
4 Constructi	on and materials	C. S. C.	intestation (
4.1	Construction	C **** 10 10	P
4.2	Filter material and surface qualit	y	P 5/1
4.3	Physiological compatibility (Nic	kel Release)	NA
5 Transmitta	ance		30
5.2	Transmittance and filter	Filter categories	Cat.3
5.2	categories	UV requirements	The P
5.3 General	transmittance requirements	0 4 5 1 mm	estation of
5.3.1	Uniformity of luminous transmit	tance	P
Allessalt	Requirements for road use	5.3.2.2 Spectral transmittance	P
5.3.2		5.3.2.3 Detection of signal lights	RIP P
	and driving	5.3.2.4 Driving in twilight or at night	NA
Jobal Comm	Additional transmittance	5.3.4.1 Photochromic filters	NA NA
5.3.4	requirements for specific filter	5.3.4.2 Polarizing filters	NA
	types	5.3.4.3 Gradient filters	NA
6 Refractiv	ve power	TO LO TO	iii)
6.1	Spherical and astigmatic power	The The state of t	The Proposition
6.2	Local variations in refractive pov	P P	
6.3	Prism imbalance (relative prism	P	

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Tests Conducted Summary

CLAUSES	REQUIREMENTS	RESULT
7 Robustness	S The transfer of the transfer	® Artestation of Control
7.1	Minimum robustness of filters	P
7.2	Frame deformation and retention of filters	P
8	Resistance to solar radiation	P
9 8 # 1000	Resistance to ignition	P
11 Protective	e requirements	N Completoe
11.1	Coverage area	P P
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.	-1107		Defects	The Compliance	The Compliance Compliance	Artestation of Co.
	Constr	uction	Filter Material and Surface Quality		Comment	Result(s)
	Observed	Absent	Observed	Absent	- FILE	12.
01	lin:	X	in in	X	The Compliant	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	The The State of t	Final Clobal Comm	Alles tation - C	Alless
Test Items	Requirements	Left	Right	Result(s)
C.C. Allega	For Cat. 0: 80.0~100		. 510	#31 Mage
Luminous	For Cat. 1: 43.0~80.0	ace The Complete	® ## station of GI	Sipple (S. San All
$transmittance\tau_{v}$	For Cat. 2: 18.0~43.0	0.2	9.3	C-4.2
(380~780)nm (%)	For Cat. 3: 8.0~18.0	9.3	9.3	Cat.3
0 100	For Cat. 4: 3.0~8.0	liti:	100	The Kill Compile
Filter categories	Claimed Cat.: (Not Provided)	The indiana	The Compliance @	ttestation of Gre
τ _{SUVB} (280~315)nm (%)	For Cat.0, 1: ≤0.05τ _v For Cat.2: 1.0% absolute or 0.05τ _v whichever is greater; For Cat.3, 4:1.0% absolute	0.0	0.0	P
τ _{SUVA} (315~380)nm (%)	For Cat.0, $1: \le \tau_v$; For Cat.2, $3: \le 0.5\tau_v$ For Cat.4: 1.0% absolute or 0.25 τ_v whichever is greater	0.0	0.0	P
τ _{sb} (380~500)nm (%)	OM Francisco	7.8	8.1	Only Ref

Measurement Uncertainty (if necessary):

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Tel: +86-755 8358 3833 Fax: +86-755 2531 6612 E-mail: agc01@agc-cert.com

Add: Building 2, No.171, Meihua Road, Shangmeilin, Futian District, Shenzhen, Guangdong China

Attestation of Global Compliance Std. & Tech.



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Test Results

Uniformity of luminous transmittance — Clause 5.3.1

Sample No.: 01	The state of the s	Manco (8) The Hand	J. Complian	@ Attestation of 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%	4.1	5.0	P
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%	© Marketon of the State of the	3.1	P P

Measurement Uncertainty (if necessary):

Requirements for road use and driving — Clause 5.3.2

Sample No.: 01	Compiler (a) Allestadin			
Test Items	Requirements	Left	Right	Result(s)
Categories	Filters suitable for road use and driving shall be categories 0, 1, 2 or 3	Cat.3	Cat.3	P
Spectral transmittance (475~650)nm (%)	$\geq 0.2 \tau_{\rm v}$	7.6 $(0.2\tau_v=1.9)$	7.8 $(0.2\tau_v=1.9)$	P
Red Signal	≥ 0.80	1.152	1.150	Altestation of Glob
Yellow Signal	≧ 0.60	0.991	0.991	D
Green Signal	≥ 0.60	1.004	1.004	P
Blue Signal	≥ 0.60	1.147	1.147	GC *
Driving in twilight or at night(%)	$\tau_{\rm v} \ge 75\%$	9.3	9.6	NA

Measurement Uncertainty (if necessary):

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Test Results

Test Results

Refractive power — Clause 6

Sample No.: 0	1 The Complian	e (8) Alleste	liero, © Westing of co.	Attestation	100	
Test I	Test Items Requirements		Left	Right	Result(s)	
NGO	liti:	± 0.12D	700	+0.06	+0.05	P
Spherical Power	· (D)	MA YOU	between the spherical ot exceed 0.18 D;	addition as a	.01	P
Astigmatic Pow	er (D)	≦0.12D			0.00	P
		10.11	1*	+0.03	0.00	of Stobal Co
THE THE PARTY OF T	Spherical Power	$\pm 0.12D$	2*	-0.01	+0.01	P P
(Con., Witestation of			3*	+0.04	+0.02	
Local variations			4*	+0.01	+0.01	
in refractive power (D)	T The Confi	Astigmatic	1*	0.01	0.02	
Mestation of Gill	Astigmatic		2*	0.02	0.02	
	Power	≦0.12D	3*	0.05	0.02	
平玩	Da Congliance	The Compliant	4*	0.03	0.03	
20 LGC			Base Out: <1.00	0.05		T The
Prism imbaland	ce	Horizontal	Base In: <0.25	The state of the s		P
(cm/m)		Vertical	<0.25	60 0	0.04	

Measurement Uncertainty (if necessary):

Note: * See figure:

Key: A=Reference points X=Measure point

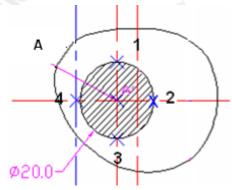


Figure: Measuring location of refractive power

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Test Results

Minimum robustness of filters — Clause 7.1

Sample No.	Def	ects	The Complete	Daniel (a)
	Observed	Absent	Comment	Result(s)
01	Chopal Count	X	GO >>	P

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	Struc	cture 🦔	Lens Re	etention	of Global Co
	Sample No.	Distance C (mm)	Deformation X (mm)	Percentage Φ(%)	Pass	Fail	Pass	Fail	Result(s)
jbi	01	73.64	0.15	0.2	X		X	AST 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

Sample No.: 0	1	10 .00				Wit.
Test It	tems	Requirem	ents	Left	Right	Result(s)
		For Cat. 0: <±3%	Before exposure	9.3	9.6	itestation,
The relative ch	3.1/2 Co.	For Cat. 1: <±5% For Cat. 2: <±8%	After exposure	9.4	9.6	P
luminous transmittance		For Cat. 2. $<\pm 3/6$ For Cat. 3, 4: $<\pm 10\%$	Difference	1.1	0.0	4.
10	T	For Cat. 0,1: $\leq 0.05\tau_v$	- Mil.	The Compliance	The Compiler	(C) Allest
Requirements for the	τ _{SUVB} (280~315) nm (%)	For Cat. 2: 1.0% absolute or $0.05\tau_v$ whichever is greater;		0.0	0.0	P
ultraviolet	Alles .	For Cat. 3, 4: 1.0% abso	lute		Sill.	162 mm
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	lute or $0.25\tau_v$	0.0	0.0	P
mpliance	11111 (/0)	whichever	is greater;			

Measurement Uncertainty (if necessary):

Test Results

Ignition — Clause 9

Sampla No	Continued	Combustion	Comment	Result(s)	
Sample No.	Yes	No	Manager Comment	Result(s)	
01	® Allestation of Coll	X	-	P	
C Amo			line and	- Th	

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

© A Support	Type	Test	Covera	ge Area	C	D. II. Band
Sample No.	(Adults/Children)	Position	Pass	Fail	Comment	Result(s)
701 companie	The Till Tollares	Left	or of Cooloos X @	astation of Global	© Filesanor C	P
01	Adults	Right	X			P

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.
- 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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AGC03778180401-001S1

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Report No.: AGC03778180401-002S1 Date: May 14, 2018 Page 1 of 3

Applicant:

Address:

Report on the submitted samples said to be:

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: Conclusion:

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

Pass

Reported by: Ohard. Yas

Reviewed by:

Liujinliang Jay.Liu

Yaoxianglan, Chanel.Yao

Reporter

Huangguohua

Vice Laboratory Manager

Laboratory Supervisor

Approved by Joy Liu



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Add: Building 2, No.171, Meihua Road, Shangmeilin, Futian District, Shenzhen, Guangdong China



Report No.: AGC03778180401-002S1 Date: May 14, 2018 Page 2 of 3

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.

Sample Number	Wavelength (nm)	Maximum S	Spectral	transmittance (%)	Result	
Sample Number	wavelength (mm)	Left Right		- Kesuit		
01	280-400	0.0	® 4	0.0	P	

Requirements:

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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AGC03778180401-002S1

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*** End of Report***

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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.

MO7455

Item No

9672

Country of Origin

CHINA

Country of Destination Sample Receiving Date **EUROPE**

Feb.12, 2019

Testing Period

Feb.12, 2019 to Feb.15, 2019

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).

Liulinwen, I

Technical Director



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Add: Building 2, No.171, Meihua Road, Shangmeilin, Futian District, Shenzhen, Guangdong China



Report No.: AGC03778190202-001 Date: Feb.15, 2019 Page 2 of 8

Test Requested: Conclusion

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.

Pass

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.

Pass

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.

Pass

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Date: Feb.15, 2019

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Test Result(s):

1. Test Result(s) of Cd:

Unit: mg/kg

Test item(s)	Test Method/	MDI		W **	Result(s)		
	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	/	Pass	Pass	Pass	Pass	Pass	1

Unit: mg/kg

T-4 (4(-)	Test Method/	MDI	Result(s)					
Test item(s)	Equipment	MDL	1-6	1-7	1-8	1-9	1-12	Limit
Cadmium (Cd)	Refer to	5	N.D.	N.D.	N.D.	N.D.	N.D.	100
Conclusion	IEC 62321:5-2013 ICP-OES	64	Pass	Pass	Pass	Pass	Pass	/

Unit: mg/kg

Togt itom(s)	Test Method/	MDL	Re	esult(s)	T ::4
Test item(s)	Equipment	MIDL	1-10	1-11	Limit
Cadmium (Cd)	Refer to IEC 62321:5-2013	5	N.D.	N.D.	100
Conclusion	ICP-OES	1	Pass	Pass	/

- 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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Report No.: AGC03778190202-001

Date: Feb.15, 2019

2. Test result of Polycyclic Aromatic Hydrocarbons (PAHs)

Unit: mg/kg

Test Item(s)	Test Method /Equipment MDL	Result(s)						
rest tient(s)		MDL	1-1	1-2	1-3	1-4	1-5	Limit
Benzo[a]anthracene (BaA)		0.1	N.D.	N.D.	N.D.	N.D.	N.D.	1
Chrysene (CHR)	J . 60	0.1	N.D.	N.D.	N.D.	N.D.	N.D.	1
Benzo[b]fluoranthene (BbFA)	Refer to	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)	PAK	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)		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		1	Pass	Pass	Pass	Pass	Pass	/

Unit: mg/kg

Mind Thomas	Test Method /Equipment	MIDI	Result(s)					
Test Item(s)		MDL	1-6	1-7	1-8	1-9	1-12	Limit
Benzo[a]anthracene (BaA)	10	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)	Refer to	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.	<u>.</u> 1
Benzo[a]pyrene (BaP)	PAK	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		- 5	N.D.	N.D.	N.D.	N.D.	N.D.	/
Conclusion		/	Pass	Pass	Pass	Pass	Pass	/

- 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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3. Test result of phthalates content

Unit: %, w/w

- C - m . m . m	Test Method/	MADI		T				
Test Item(s)	Equipment	MDL	1-1	1-2	1-3	1-4	1-5	Limit
Dibutyl phthalate (DBP)	0 -0	0.01	N.D.	N.D.	N.D.	N.D.	N.D.	
Butylbenzyl phthalate (BBP)	Refer to	0.01	N.D.	N.D.	N.D.	N.D.	N.D.	5 6.5
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		() -	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.	
Di-isononyl phthalate (DINP)	4 to 10	0.01	N.D.	N.D.	N.D.	N.D.	N.D.	- E
Di-isodecyl phthalate (DIDP)	NGC "	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.	0.1
Conclusion	W. W. W.	1	Pass	Pass	Pass	Pass	Pass	/

Unit: %, w/w

T-AIA(c)	Test Method/	MDI	Result(s)					
Test Item(s)	Equipment	MDL	1-6	1-7	1-8	1-9	1-12	Limit
Dibutyl phthalate (DBP)		0.01	N.D.	N.D.	N.D.	N.D.	N.D.	3-
Butylbenzyl phthalate (BBP)	-0	0.01	N.D.	N.D.	N.D.	N.D.	N.D.	1
Di- (2-ethylhexyl) phthalate (DEHP)	Re.	0.01	N.D.	N.D.	N.D.	N.D.	N.D.	- (
Diisobutyl phthalate (DIBP)	1 To 1	0.01	N.D.	N.D.	N.D.	N.D.	N.D.	
Sum of DBP+BBP+DEHP+DIBP	Refer to	-	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.	
Di-isononyl phthalate (DINP)		0.01	N.D.	N.D.	N.D.	N.D.	N.D.	
Di-isodecyl phthalate (DIDP)	,c*'	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.	0.1
Conclusion		/	Pass	Pass	Pass	Pass	Pass	/

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0.1%, w/w = 1000 mg/kg

MDL=method detection limit

N.D.=not detected (less than method detection limit)

"—" =Not regulated

As specified by client, only test the designated sample

Sample Description

1-1	Black plastic frame			
1-2	White plastic frame	30		
1-3	Blue plastic frame		(C. F	9
1-4	Yellow plastic frame	6	6.	
1-5	Orange plastic frame	e.C	60	1
1-6	Red plastic frame	20	1	
1-7	Pink plastic frame	16	Q T	4.8
1-8	Lime plastic frame	4	0.71	0
1-9	Purple plastic frame	10	70V	
1-10	Silver coating		-	48
1-11	Metal pin	4	0.	do "
1-12	Black plastic len	12		

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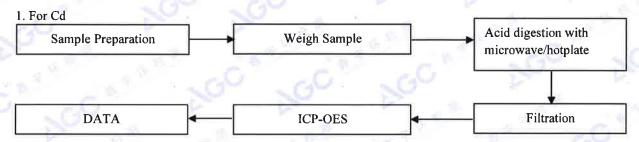


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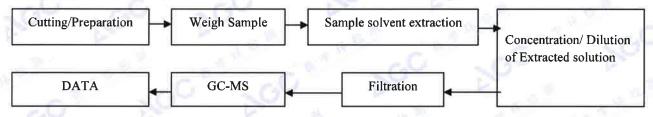
Date: Feb.15, 2019

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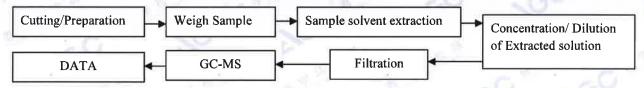
Test Flow Chart



2. For PAHs



3. For phthalates



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The photo of the sample



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*** End of Report***

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No.18 C

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