

# **Test Report**

Report No. : AGC05443250922-001

**SAMPLE NAME** : Foldable multi-tool knife with flashlight

MODEL NAME : MO2201

**APPLICANT**: MID OCEAN BRANDS B.V.

**STANDARD(S)** : Please refer to the following page(s).

**DATE OF ISSUE** : Sep. 22, 2025

Attestation of Global Compliance (Shenzhen) Std & Tech Co., Ltd.





Applicant : MID OCEAN BRANDS B.V.

Address : Unit 711-716, 7/F., Tower A, 83 King Lam Street, Cheung Sha Wan, Kowloon, Hong

Kong.

Test Site : 6/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community, Hangcheng Street,

Bao'an District, Shenzhen, Guangdong, China

Report on the submitted sample(s) said to be:

Sample Name : Foldable multi-tool knife with flashlight

Model : MO2201
Vendor code : 114036
Country of Origin : CHINA
Country of Destination : EUROPE
Sample Received Date : Sep. 12, 2025

Testing Period : Sep. 12, 2025 to Sep. 19, 2025

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

Test Requested: Conclusion

2011/65/EU (RoHS) and its amendment directive (EU) 2015/863

- Pb, Cd, Hg, Cr<sup>6+</sup>, PBBs, PBDEs, DBP, BBP, DEHP, DIBP

Annex XVII of the REACH Regulation (EC) No 1907/2006, entry 50

- Polycyclic-aromatic Hydrocarbons (PAHs) Content

Pass

Annex XVII of the REACH Regulation (EC) No 1907/2006, entry 43

- Aromatic Amines Azodyes (AZO) Content

- Color fastness to rubbing Pass

Approved by: Suhong hung

Report No.: AGC05443250922-001

Pass

Pass

Suhongliang

**Technical Director** 



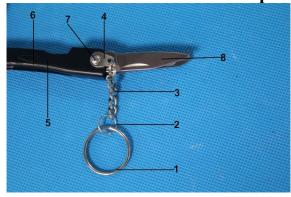
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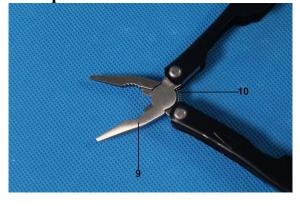
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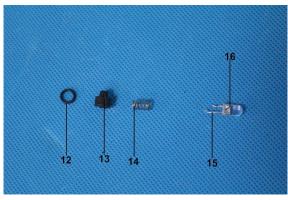
Report Version	Issued Date	Valid Version	Notes
/	Sep. 22, 2025	Valid	Initial release

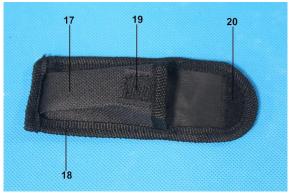


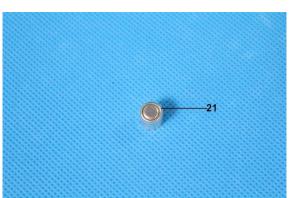
The photo of the sample

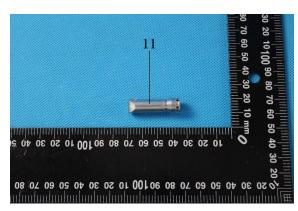






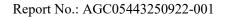








The photo of AGC05443250922-001 is for use only with the original report.





#### **Test Point Description**

Test point	Test module	Test parts	Test point description
Model: MO	D2201	•	
1			Silver metal keychain
2			Silver metal ring
3			Silver metallic chain
4			Silver metallic sheet
5		Black metal handle	Black coating
6		Brack metal handle	Metal handle
7			Silver metal rivet
8			Silver metal blade
9			Silver metal pliers
10			Silver metal spring
11			Silver metallic shell
12			Black rubber ring
13		Flashlight	Black plastic lamp holder
14			Silver metal spring
15			Metal pin
16			Transparent plastic lamp beads
17			Black cloth surface
18		Black cloth bag	Black edging cloth strip
19		Diack cloth bag	Velcro (hook surface)
20			Velcro (hairy surface)
21			Transparent plastic film

Note: "---" = The test point exists alone in the sample and is not attached to the test module or test parts.



Note: N.D.=Not Detected (less than method detection limit), MDL = Method Detection Limit, 1 mg/kg = 0.0001%, N/A= Not Applicable

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/CNAS-GL015:2022.

#### 2011/65/EU (RoHS) and its amendment directive (EU) 2015/863

#### - Pb, Cd, Hg, Cr<sup>6+</sup>, PBBs, PBDEs, DBP, BBP, DEHP, DIBP

Cadmium (Cd)	Test Item	Test Method/ Instrument	MDL	Maximum Limit
Mercury (Hg)	Lead (Pb)		/	1000mg/kg
Total Chromium Total Bromine  Chemistry Method  Lead (Pb) IEC 62321-5:2013/ICP-OES Cadmium (Cd) IEC 62321-5:2013/ICP-OES Cadmium (Cd) IEC 62321-5:2013/ICP-OES IEC 62321-4: 2013+A1:2017/ ICP-OES Non-metal: Hexavalent Chromium (Cr <sup>6+</sup> ) IEC 62321-7-2:2017/ UV-Vis Regal Metal: Hexavalent Chromium (Cr <sup>6+</sup> ) IEC 62321-7-1:2015/ UV-Vis Polybrominated Biphenyls (PBBs) -Monobromobiphenyl (MonoBB) -Dibromobiphenyl (TirBB) -Tetrabromobiphenyl (TirBB) -Tetrabromobiphenyl (PentaBB) -Hexabromobiphenyl (PentaBB) -Hexabromobiphenyl (PetaBB) -Docabromodiphenyl (DecaBB) Polybrominated Diphenylethers (PBDEs) -Monobromodiphenyl ether (MonoBDE) -Dibromodiphenyl ether (TriBDE) -Tetrabromodiphenyl ether (PentaBDE) -Hexabromodiphenyl ether (PentaBDE) -Hexabromodiphenyl ether (PentaBDE) -Hexabromodiphenyl ether (PentaBDE) -Decabromodiphenyl ether (HexaBDE) -Hexabromodiphenyl ether (HexaBDE) -Decabromodiphenyl ether (HexaBDE) -Decabromodiphenyl ether (MonoBDE) -Disiso-butyl phthalate (DIBP) Dibutyl phthalate (DIBP)  Butylbenzyl phthalate (BBP)  IEC 62321-8:2017/ GC-MS  IEC 62321-8:2017/ GC-MS  Jonograkg Jo	Cadmium (Cd)		/	100mg/kg
Total Bromine  Chemistry Method  Lead (Pb)  IEC 62321-5:2013/ ICP-OES  Zmg/kg 1000mg/kg  IEC 62321-5:2013/ ICP-OES  Mercury (Hg)  IEC 62321-5:2013/ ICP-OES  Mercury (Hg)  IEC 62321-4: 2013+A1:2017/ ICP-OES  Non-metal: Hexavalent Chromium (Cr <sup>6+</sup> )  IEC 62321-7-2:2017/ UV-Vis  Metal: Hexavalent Chromium (Cr <sup>6+</sup> )  Polybrominated Biphenyls (PBBs)  -Monobromobiphenyl (MonoBB)  -Pibromobiphenyl (IPBB)  -Tribromobiphenyl (TriBB)  -Tetrabromobiphenyl (PentaBB)  -Hexabromobiphenyl (HexaBB)  -Hexabromobiphenyl (PentaBB)  -Decabromodiphenyl (OctaBB)  -Nonabromodiphenyl (HexaBB)  -Decabromodiphenyl ether (MonoBDE)  -Dibromodiphenyl ether (MonoBDE)  -Dibromodiphenyl ether (TriBDE)  -Tetrabromodiphenyl ether (TriBDE)  -Tetrabromodiphenyl ether (PentaBDE)  -Hexabromodiphenyl ether (PentaBDE)  -Hexabromodiphenyl ether (HetaBDE)  -Hexabromodiphenyl ether (HetaBDE)  -Decabromodiphenyl ether (HetaBDE)  -Disiso-butyl phthalate (DIBP)  Dibutyl phthalate (DBP)  Butylbenzyl phthalate (BBP)	Mercury (Hg)	IEC 62321-3-1:2013/ XRF	/	1000mg/kg
Chemistry Method	Total Chromium		/	/
Lead (Pb)   IEC 62321-5:2013/ ICP-OES   2mg/kg   1000mg/kg     Cadmium (Cd)   IEC 62321-5:2013/ ICP-OES   2mg/kg   100mg/kg     Mercury (Hg)   IEC 62321-5:2013/ ICP-OES   2mg/kg   100mg/kg     Mercury (Hg)   IEC 62321-4: 2013+A1:2017/   2mg/kg   1000mg/kg     Non-metal: Hexavalent Chromium (Cr <sup>6+</sup> )   IEC 62321-7-2:2017/ UV-Vis   8mg/kg   1000mg/kg     Metal: Hexavalent Chromium (Cr <sup>6+</sup> )   IEC 62321-7-2:2017/ UV-Vis   0.1µg/cm²   /   Polybrominated Biphenyls (PBBs)	Total Bromine		/	/
Lead (Pb)   IEC 62321-5:2013/ ICP-OES   2mg/kg   1000mg/kg     Cadmium (Cd)   IEC 62321-5:2013/ ICP-OES   2mg/kg   100mg/kg     Mercury (Hg)   IEC 62321-5:2013/ ICP-OES   2mg/kg   100mg/kg     Mercury (Hg)   IEC 62321-4: 2013+A1:2017/   2mg/kg   1000mg/kg     Non-metal: Hexavalent Chromium (Cr <sup>6+</sup> )   IEC 62321-7-2:2017/ UV-Vis   8mg/kg   1000mg/kg     Metal: Hexavalent Chromium (Cr <sup>6+</sup> )   IEC 62321-7-2:2017/ UV-Vis   0.1µg/cm²   /   Polybrominated Biphenyls (PBBs)	Chemistry Method		I .	I
Cadmium (Cd)   IEC 62321-5:2013/ ICP-OES   2mg/kg   100mg/kg   IEC 62321-4: 2013+A1:2017/   2mg/kg   1000mg/kg   IEC 62321-4: 2013+A1:2017/   2mg/kg   1000mg/kg   Non-metal: Hexavalent Chromium (Cr <sup>6+</sup> )   IEC 62321-7-2:2017/ UV-Vis   8mg/kg   1000mg/kg   Metal: Hexavalent Chromium (Cr <sup>6+</sup> )   IEC 62321-7-2:2017/ UV-Vis   0.1µg/cm² / Polybrominated Biphenyls (PBBs)   -Monobromobiphenyl (MonoBB)   -Dibromobiphenyl (PiBB)   -Tetrabromobiphenyl (TetraBB)   -Tetrabromobiphenyl (PentaBB)   -Hexabromobiphenyl (HexaBB)   -Hexabromobiphenyl (HeptaBBB)   -Octabromobiphenyl (HeytaBB)   -Octabromobiphenyl (DeaBB)   -Nonabromodiphenyl (DeaBB)   -Dibromodiphenyl (DeaBB)   -Dibromodiphenyl ether (MonoBDE)   -Dibromodiphenyl ether (MonoBDE)   -Dibromodiphenyl ether (TriBDE)   -Tetrabromodiphenyl ether (TriBDE)   -Tetrabromodiphenyl ether (HexaBDE)   -Hexabromodiphenyl ether (HexaBDE)   -Hexabromodiphenyl ether (HexaBDE)   -Hexabromodiphenyl ether (OctaBDE)   -Nonabromodiphenyl ether (OctaBDE)   -Nonabromodiphenyl ether (OctaBDE)   -Nonabromodiphenyl ether (DeaBDE)   -Dicabromodiphenyl ether (DeaBDE)   -Dicabromodiphenyl ether (DeaBDE)   -Dicabromodiphenyl ether (DeaBDE)   -Disio-butyl phthalate (DIBP)   -Disio-butyl phthalate (DIBP)   -Dibtyl phthalate (DIBP	•	IEC 62321-5:2013/ ICP-OES	2mg/kg	1000mg/kg
Mercury (Hg)    IEC 62321-4: 2013+A1:2017/   ICP-OES   1000mg/kg		IEC 62321-5:2013/ ICP-OES		
Metal: Hexavalent Chromium (Cr <sup>6+</sup> ) IEC 62321-7-1:2015/ UV-Vis 0.1µg/cm <sup>2</sup> / Polybrominated Biphenyls (PBBs) -Monobromobiphenyl (MonoBB) -Dibromobiphenyl (TriBB) -Tribromobiphenyl (TritaBB) -Pentabromobiphenyl (HexaBB) -Hexabromobiphenyl (HexaBB) -Octabromobiphenyl (NonaBB) -Octabromodiphenyl (NonaBB) -Polybrominated Diphenyl ether (PBDEs) -Monobromodiphenyl ether (MonoBDE) -Dibromodiphenyl ether (TriBDE) -Tetrabromodiphenyl ether (TriBDE) -Tetrabromodiphenyl ether (TriBDE) -Tetrabromodiphenyl ether (HexaBDE) -Hexabromodiphenyl ether (HeptaBDE) -Octabromodiphenyl ether (HeptaBDE) -Diesobromodiphenyl ether (HeptaBDE) -Octabromodiphenyl ether (MonoBDE) -Disobutyl phthalate (DIBP) Dibutyl phthalate (DBP) Butylbenzyl phthalate (BBP)  IEC 62321-6:2015/ GC-MS  IEC 62321-6:2015/ GC-MS  Single Sum 1000mg/kg  Single Smg/kg 1000mg/kg 50mg/kg 1000mg/kg 50mg/kg 1000mg/kg	Mercury (Hg)	IEC 62321-4: 2013+A1:2017/		
Polybrominated Biphenyls (PBBs) -Monobromobiphenyl (MonoBB) -Dibromobiphenyl (DiBB) -Tribromobiphenyl (TriBB) -Tetrabromobiphenyl (TetraBB) -Pentabromobiphenyl (PentaBB) -Hexabromobiphenyl (HexaBB) -Octabromobiphenyl (NonaBB) -Decabromodiphenyl (DecaBB) -Dibromodiphenyl (DecaBB) -PolybrominatedDiphenyl ether (MonoBDE) -Dibromodiphenyl ether (TriBDE) -Tetrabromodiphenyl ether (TriBDE) -Petrabromodiphenyl ether (TriBDE) -Petrabromodiphenyl ether (HexaBDE) -Hexabromodiphenyl ether (HexaBDE) -Honabromodiphenyl ether (CotaBDE) -Nonabromodiphenyl ether (OctaBDE) -Nonabromodiphenyl ether (CotaBDE) -Dibromodiphenyl ether (DecaBDE) -Dibromodiphenyl ether (DecaBDE) -Dibromodiphenyl ether (DecaBDE) -Dibromodiphenyl ether (DocaBDE) -Dibromodiphenyl ether (DocaBDE) -Dibromodiphenyl ether (DocaBDE) -Dibromodiphenyl ether (DocaBDE) -Nonabromodiphenyl ether (NonaBDE	Non-metal: Hexavalent Chromium (Cr <sup>6+</sup> )	IEC 62321-7-2:2017/ UV-Vis	8mg/kg	1000mg/kg
-Monobromobiphenyl (MonobB) -Dibromobiphenyl (DiBB) -Tribromobiphenyl (TriBB) -Tetrabromobiphenyl (PentaBB) -Pentabromobiphenyl (HexaBB) -Hexabromobiphenyl (HeptaBB) -Octabromobiphenyl (NonaBB) -Decabromodiphenyl (NonaBB) -Decabromodiphenyl (PentaBB) -Dibromodiphenyl (PentaBB) -Dibromodiphenyl ether (MonoBDE) -Dibromodiphenyl ether (TriBDE) -Tribromodiphenyl ether (TriBDE) -Tetrabromodiphenyl ether (PentaBDE) -Hexabromodiphenyl ether (PentaBDE) -Hexabromodiphenyl ether (HexaBDE) -Octabromodiphenyl ether (HeptaBDE) -Octabromodiphenyl ether (OctaBDE) -Nonabromodiphenyl ether (NonaBDE) -Dibromodiphenyl ether (NonaBDE) -Dibromodiphenyl ether (Monobbes) -Dibromodiphenyl ether (PentaBDE) -Dibromodiphenyl ether (PentaBDE) -Dibromodiphenyl ether (NonaBDE) -Docabromodiphenyl ether (NonaBDE) -Dibromodiphenyl ether (DocaBDE) -Dibromodiphenyl ether (DocaBDE) -Dibromodiphenyl ether (NonaBDE) -Docabromodiphenyl ether (OctaBDE) -Dibromodiphenyl ether (DocaBDE) -Dibromodiphenyl ether (DocaBDE) -Dibromodiphenyl ether (PentaBDE) -Docabromodiphenyl ether (PentaBDE) -Docabromodiphenyl ether (DocaBDE) -Dibromodiphenyl ether (DocaBDE) -Dibromodiphenyl ether (NonaBDE) -Docabromodiphenyl ether (PentaBDE) -Docabromodiphenyl ether (DocaBDE) -Dibromodiphenyl ether (DocaBDE) -Docabromodiphenyl ether (DocaBDE) -Docabro	Metal: Hexavalent Chromium (Cr <sup>6+</sup> )	IEC 62321-7-1:2015/ UV-Vis	0.1μg/cm <sup>2</sup>	/
-Monobromodiphenyl ether (MonoBDE) -Dibromodiphenyl ether (DiBDE) -Tribromodiphenyl ether (TriBDE) -Pentabromodiphenyl ether (PentaBDE) -Pentabromodiphenyl ether (PentaBDE) -Hexabromodiphenyl ether (HexaBDE) -Octabromodiphenyl ether (HeptaBDE) -Octabromodiphenyl ether (OctaBDE) -Nonabromodiphenyl ether (NonaBDE) -Decabromodiphenyl ether (DecaBDE)  Di-iso-butyl phthalate (DIBP)  Dibutyl phthalate (DBP)  Butylbenzyl phthalate (BBP)  IEC 62321-8:2017/ GC-MS  Single 5mg/kg  1000mg/kg  50mg/kg  1000mg/kg  50mg/kg  1000mg/kg	-Dibromobiphenyl (DiBB) -Tribromobiphenyl (TriBB) -Tetrabromobiphenyl (TetraBB) -Pentabromobiphenyl (PentaBB) -Hexabromobiphenyl (HexaBB) -Heptabromobiphenyl (HeptaBB) -Octabromobiphenyl (OctaBB) -Nonabromodiphenyl (NonaBB) -Decabromodiphenyl (DecaBB)	IEC 62321-6:2015/ GC-MS		
Di-iso-butyl phthalate (DIBP)  Dibutyl phthalate (DBP)  Butylbenzyl phthalate (BBP)  IEC 62321-8:2017/ GC-MS  50mg/kg 1000mg/kg 1000mg/kg 50mg/kg 1000mg/kg	-Monobromodiphenyl ether (MonoBDE) -Dibromodiphenyl ether (DiBDE) -Tribromodiphenyl ether (TriBDE) -Tetrabromodiphenyl ether (TetraBDE) -Pentabromodiphenyl ether (PentaBDE) -Hexabromodiphenyl ether (HexaBDE) -Heptabromodiphenyl ether (HeptaBDE) -Octabromodiphenyl ether (OctaBDE) -Nonabromodiphenyl ether (NonaBDE)	IEC 62321-6:2015/ GC-MS		
Dibutyl phthalate (DBP)  Butylbenzyl phthalate (BBP)  IEC 62321-8:2017/ GC-MS  50mg/kg 1000mg/kg 50mg/kg 1000mg/kg			50mg/kg	1000mg/kg
Butylbenzyl phthalate (BBP)  IEC 62321-8:2017/ GC-MS  50mg/kg 1000mg/kg	• • • • • • • • • • • • • • • • • • • •			
	J 1 ( )	IEC 62321-8:2017/ GC-MS		8 8
	Di-(2-ethylhexyl) Phthalate (DEHP)		50mg/kg	1000mg/kg



Test point	Test Item		X-ray Fluorescence Spectrometry (XRF) mg/kg	Wet Chemistry Method mg/kg	C05443250922-00
	Pb		BL	/	
	(	Cd	BL	/	
	F	łg	BL	/	
	Cr(	Cr <sup>6+</sup> )	BL	/	
1	Br	PBBs PBDEs	N/A	/	Conformity
	DI	BP	N/A	/	
		BP	N/A	/	
		BP	N/A	/	
_		ЕНР	N/A	/	
		<b>P</b> b	BL	/	
		Cd	BL	/	
			BL	/	
		Cr <sup>6+</sup> )	BL	/	
2	Br	PBBs PBDEs	N/A	/	Conformity
	DIBP		N/A	/	
-	DBP		N/A	/	
-	BBP		N/A	/	
	DEHP		N/A	/	
		Pb	BL	/	
		Cd Cd	BL	/	
	Hg		BL	/	
	Cr(Cr <sup>6+</sup> )		BL	/	
3	Br	PBBs PBDEs	N/A	/	Conformity
	DI	BP	N/A	/	
		BP	N/A	/	
		BP	N/A	/	
	DEHP		N/A	/	
		Pb	BL	/	
		Cd Cd	BL	/	
		Ig	BL	/	
	Cr(	Cr <sup>6+</sup> )	IN	N.D.	
4	Br	PBBs PBDEs	N/A	/	Conformity
	DI	BP	N/A	/	
<u> </u>		BP	N/A	,	
-		BP	N/A	/	
-		EHP	N/A	/	

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Web: http://www.agccert.com/



Test point	Test	Item	X-ray Fluorescence Spectrometry (XRF) mg/kg	Wet Chemistry Method mg/kg	Conclusion	
	Pb		BL	/		
	C	Cd	BL	/		
	H	Ig	BL	/		
	Cr(0	Cr <sup>6+</sup> )	BL	/		
_		PBBs	DI	/	G C :	
5	Br	PBDEs	BL	/	Conformity	
	DI	BP	N/A	N.D.		
	D.	BP	N/A	N.D.		
	В	BP	N/A	N.D.		
	DE	ЕНР	N/A	N.D.		
	F	b	BL	/		
	C	Cd	BL	/		
	F	lg	BL	/		
	Cr(0	Cr <sup>6+</sup> )	IN	N.D.		
		PBBs	27/4	/	~ .	
6	Br	PBDEs	N/A	/	Conformity	
	DIBP		N/A	/		
	DBP		N/A	/		
	BBP		N/A	/		
	DEHP		N/A	/		
	F	Pb	BL	/		
	C	Cd	BL	/		
	Hg		BL	/		
	Cr(Cr <sup>6+</sup> )		IN	N.D.		
7	Br	PBBs PBDEs	N/A	/	Conformity	
	DI	BP	N/A	/		
	DBP BBP		N/A	/		
			N/A	/		
		НР	N/A	/		
		b	BL	/		
		Cd	BL	/		
			BL	/		
		$\operatorname{Cr}^{6+}$ )	IN	N.D.		
<u> </u>		PBBs		/	a	
8	Br	PBDEs	N/A	/	Conformity	
	DI	BP	N/A	/		
		BP	N/A	/		
		BP	N/A	/		
		CHP	N/A	/		



Test point	Test Item		X-ray Fluorescence Spectrometry (XRF) mg/kg	Wet Chemistry Method mg/kg	C05443250922-0
		Pb	BL	/ /	
		Cd	BL	/	
		Hg	BL	/	
		Cr <sup>6+</sup> )	IN	N.D.	
	CI	PBBs	111	/	
9	Br	PBDEs	N/A	/	Conformity
	D	IBP	N/A	/	
	Г	BP	N/A	/	
	В	BP	N/A	/	
	D	EHP	N/A	/	
		Pb	BL	/	
		Cd	BL	/	
	]	Hg	BL	/	
		Cr <sup>6+</sup> )	IN	N.D.	
10	Br	PBBs	N/A	/	Conformity
_		PBDEs		/	Comoning
	DIBP		N/A	/	
	DBP		N/A	/	
	BBP		N/A	/	
	DEHP		N/A	/	
	Pb		BL	/	
		Cd	BL	/	
	Hg		BL	/	
	$Cr(Cr^{6+})$		IN	N.D.	
		PBBs		/	
11	Br PBDEs		N/A	/	Conformity
	D	IBP	N/A	/	
		BP	N/A	/	
		BP	N/A	/	
		EHP	N/A	/	
		Pb	BL	/	
		Cd	BL	/	
		Hg	BL	/	
	Cr(	Cr <sup>6+</sup> )	BL	/	
-		PBBs		/	
12	Br	PBDEs	BL	/	Conformity
	D	IBP	N/A	N.D.	
	Г	BP	N/A	N.D.	
		BP	N/A	N.D.	
		ЕНР	N/A	N.D.	



Test point	Test	Item	X-ray Fluorescence Spectrometry (XRF) mg/kg	Wet Chemistry Method mg/kg	Conclusion
	Pb		BL	/	
	(	Cd	BL	/	
	H	<b>I</b> g	BL	/	
	Cr(0	Cr <sup>6+</sup> )	BL	/	
13	Br	PBBs	BL	/	Conformity
13	DI	PBDEs	DL	/	Comornity
	DI	BP	N/A	N.D.	
	D.	BP	N/A	N.D.	
	В	BP	N/A	N.D.	
	DE	EHP	N/A	N.D.	
	F	b	BL	/	
	C	Cd	BL	/	
	H	<b>I</b> g	BL	/	
	Cr(0	$Cr^{6+}$ )	IN	N.D.	
14	Br	PBBs	NI/A	/	Conformity
14	Br	PBDEs	N/A	/	
	DIBP		N/A	/	
	DBP		N/A	/	
	BBP		N/A	/	
	DEHP		N/A	/	
	F	b	BL	/	
	(	Cd	BL	/	
	Hg		BL	/	
	$Cr(Cr^{6+})$		BL	/	
15	Br	PBBs PBDEs	N/A	/	Conformity
	DIBP		N/A	/	
	D:	BP	N/A	/	
		BP	N/A	/	
	DEHP		N/A	/	
		Pb	BL	/	
	C	Cd	BL	/	
	H	lg	BL	/	
		$\operatorname{Cr}^{6+}$ )	BL	/	
16		PBBs		N.D.	
16	Br	PBDEs	IN	N.D.	Conformity
	DI	BP	N/A	N.D.	
		BP	N/A	N.D.	
		BP	N/A	N.D.	1
		CHP	N/A	N.D.	



Test point	Test	Item	X-ray Fluorescence Spectrometry (XRF) mg/kg	Wet Chemistry Method mg/kg	Conclusion
	]	Pb	BL	/	
	(	Cd	BL	/	
		Hg	BL	/	
	Cr(	Cr <sup>6+</sup> )	BL	/	
1.7		PBBs	DI	/	C C :
17	Br	PBDEs	BL	/	Conformity
	D	IBP	N/A	N.D.	
	D	BP	N/A	N.D.	
	В	BP	N/A	N.D.	
	DI	ЕНР	N/A	N.D.	
	]	Pb	BL	/	
	(	Cd	BL	/	
	I	Hg	BL	/	
	Cr(	Cr <sup>6+</sup> )	BL	/	
10	ъ.	PBBs	DI	/	
18	Br	PBDEs	BL	/	Conformity
	DIBP		N/A	N.D.	
-	DBP		N/A	N.D.	
	BBP		N/A	N.D.	
	DEHP		N/A	N.D.	
	]	Pb	BL	/	
-	(	Cd	BL	/	
	Hg		BL	/	
-	$Cr(Cr^{6+})$		BL	/	
19	Br	PBBs PBDEs	BL	/	Conformity
	D	IBP	N/A	N.D.	
		BP	N/A	N.D.	
-		BP	N/A	N.D.	
-		ЕНР	N/A	N.D.	
		Pb	BL	/	
			BL	/	
		Hg	BL	/	
		Cr <sup>6+</sup> )	BL	/	
20	Br	PBBs PBDEs	BL	/	Conformity
	D	IBP	N/A	N.D.	
-		BP	N/A	N.D.	
-		BP	N/A	N.D.	
-		ЕНР	N/A	N.D.	

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Web: http://www.agccert.com/



Test point	Test	Item	X-ray Fluorescence Spectrometry (XRF) mg/kg	Wet Chemistry Method mg/kg	Conclusion
	]	Pb	BL	/	
	(	Cd	BL	/	
	I	Hg	BL	/	
	Cr(Cr <sup>6+</sup> )		BL	/	1
21	Br	PBBs	BL	/	Conformity
21	DI	PBDEs	DL	/	Conformity
	D	IBP	N/A	N.D.	
	DBP		N/A	N.D.	
	В	BP	N/A	N.D.	
	DI	ЕНР	N/A	N.D.	

Remark: The samples of the following test points were resubmitted on September 19, 2025:11

Element	Unit	Non-metal	Metal	Composite Material
Cd	mg/kg	BL≤70-3σ <x &lt;130+3σ≤OL</x 	BL≤70-3σ <x &lt;130+3σ≤OL</x 	BL≤50-3σ <x &lt;150+3σ≤OL</x 
Pb	mg/kg	BL≤700-3σ <x &lt;1300+3σ≤OL</x 	BL≤700-3σ <x &lt;1300+3σ≤OL</x 	BL≤500-3σ <x &lt;1500+3σ≤OL</x 
Hg	mg/kg	BL≤700-3σ <x &lt;1300+3σ≤OL</x 	BL≤700-3σ <x &lt;1300+3σ≤OL</x 	BL≤500-3σ <x &lt;1500+3σ≤OL</x 
Cr	mg/kg	BL≤700-3σ <x< td=""><td>BL≤700-3σ<x< td=""><td>BL≤500-3σ<x< td=""></x<></td></x<></td></x<>	BL≤700-3σ <x< td=""><td>BL≤500-3σ<x< td=""></x<></td></x<>	BL≤500-3σ <x< td=""></x<>
Br	mg/kg	BL≤300-3σ <x< td=""><td>N/A</td><td>BL≤250-3σ<x< td=""></x<></td></x<>	N/A	BL≤250-3σ <x< td=""></x<>

#### Remark:

- (1) BL= Below Limit, OL= Over limited, IN = Inconclusive, Scanning by XRF and detected by chemical method, N/A = Not applicable.
- (2) Results were obtained by XRF for primary scanning, and further chemical testing by ICP (for Cd, Pb, Hg), UV-Vis (for Cr(VI)) and GC-MS (for PBBs, PBDEs) are recommended to be performed, if the concentration exceeds the above warning value.
- (3) The XRF scanning test for RoHS elements The reading may be different to the actual content in the sample be of non-uniformity composition.
- (4) Boiling-water-extraction:(X represents the results of the tested sample)

Number	Colorimetric result (Cr(VI) concentration)	Judgement
1	$X < 0.1 \mu g/cm^2$	Negative
2	0.1μg/cm <sup>2</sup> ≤X≤0.13μg/cm <sup>2</sup>	Uncertainty
3	$X > 0.13 \mu g/cm^2$	Positive

Negative indicates the absence of Cr(VI) on the tested areas concentration is below the limit of quantification. The coating is considered a non-Cr(VI) based coating.

Uncertainty indicates the absence of Cr(VI) on the tested areas unavoidable coating variations may influence the determination.

Positive indicates the presence of Cr(VI) on the tested areas concentration is above the limit of quantification and the statistical margin of error. The sample coating is considered to contain Cr(VI).

Storage conditions and production date of the tested sample are unavailable and thus result of Cr(VI) represent status



of the sample at the time of testing.

(5) This XRF Scanning report is for reference purposes only. The applicant shall make its/his/her own judgment as to whether the information provided in this XRF screening report is sufficient for its/his/her purposes.

The result shown in this XRF scanning report will differ based on various factors, including but not limited to, the sample size, thickness, area, surface flatness, equipment parameters and matrix effect (e.g. plastic, rubber, metal, glass, ceramic etc.). Further wet chemical pre-treatment with relevant chemical equipment analysis are required to obtain quantitative data.

#### Annex XVII of the REACH Regulation (EC) No 1907/2006, entry 50

#### - Polycyclic-aromatic Hydrocarbons (PAHs) Content

Test Methods and Equipment: Afps GS 2019:01 PAK; GC-MS

Test Item(s)	Unit	Limit	MDL	Test Result(s)		
	Unit	LIIIII		5	12	16
Benzo[a]pyrene(BaP)	mg/kg	1	0.1	N.D.	N.D.	N.D.
Benzo[e]pyrene(BeP)	mg/kg	1	0.1	N.D.	N.D.	N.D.
Benzo[a]anthracene(BaA)	mg/kg	1	0.1	N.D.	N.D.	N.D.
Benzo[b]fluoranthene(BbF)	mg/kg	1	0.1	N.D.	N.D.	N.D.
Benzo[j]fluoranthene(BjFA)	mg/kg	1	0.1	N.D.	N.D.	N.D.
Benzo[k]fluoranthene(BkF)	mg/kg	1	0.1	N.D.	N.D.	N.D.
Chrysene(CHR)	mg/kg	1	0.1	N.D.	N.D.	N.D.
Dibenzo[a,h]anthracene(DBA)	mg/kg	1	0.1	N.D.	N.D.	N.D.
Conclusion				Conformity	Conformity	Conformity

#### Limit requirements of Polycyclic-aromatic Hydrocarbons (PAHs) (Unit: mg/kg)

Items	CAS No.	Extender oils or used for the production of tyres or parts of tyres	Any of their rubber or plastic components that come into direct as well as prolonged or short-term repetitive contact with the human skin or the oral cavity	Toys, including activity toys, and childcare articles, any of their rubber or plastic components that come into direct as well as prolonged or short-term repetitive contact with the human skin or the oral cavity
Benzo[a]pyrene(BaP)	50-32-8	≤ 1	≤ 1	≤ 0.5
Benzo[e]pyrene(BeP)	192-97-2	/	≤ 1	≤ 0.5
Benzo[a]anthracene(BaA)	56-55-3	/	≤ 1	≤ 0.5
Benzo[b]fluoranthene(BbF)	205-99-2	/	≤ 1	≤ 0.5
Benzo[j]fluoranthene(BjFA)	205-82-3	/	≤ 1	≤ 0.5
Benzo[k]fluoranthene(BkF)	207-08-9	/	≤ 1	≤ 0.5
Chrysene(CHR)	218-01-9	/	≤ 1	≤ 0.5

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 Report No.: AGC05443250922-001



Items	CAS No.	Extender oils or used for the production of tyres or parts of tyres	Any of their rubber or plastic components that come into direct as well as prolonged or short-term repetitive contact with the human skin or the oral cavity	Toys, including activity toys, and childcare articles, any of their rubber or plastic components that come into direct as well as prolonged or short-term repetitive contact with the human skin or the oral cavity
Dibenzo[a,h]anthracene(DBA)	53-70-3	/	≤ 1	≤ 0.5
Sum of BaP+ BeP+ BaA+ BbF+ BjFA+ BkF+ CHR+ DBA	/	≤ 10	/	/

## Annex XVII of the REACH Regulation (EC) No 1907/2006, entry 43

#### - Aromatic Amines Azodyes (AZO) Content

Test Methods and Equipment: EN ISO 14362-1:2017; GC-MS

Test Item(s)	Unit	Limit	MDL	Test Result(s) 17+18+19
4-Aminobiphenyl CAS:92-67-1	mg/kg	30	5	N.D.
Benzidine CAS:92-87-5	mg/kg	30	5	N.D.
4-Chloro-o-toluidine CAS:95-69-2	mg/kg	30	5	N.D.
2-Naphthylamine CAS:91-59-8	mg/kg	30	5	N.D.
o-Aminoazotoluene CAS:97-56-3	mg/kg	30	5	N.D.
5-Nitro-o-toluidine CAS:99-55-8	mg/kg	30	5	N.D.
p-Chloroaniline CAS:106-47-8	mg/kg	30	5	N.D.
4-Methoxy-m-phenylenediamine CAS:615-05-4	mg/kg	30	5	N.D.
4,4'-Diaminodiphenylmethane CAS:101-77-9	mg/kg	30	5	N.D.
3,3'-Dichlorobenzidine CAS:91-94-1	mg/kg	30	5	N.D.
3,3'-Dimethoxybenzidine CAS:119-90-4	mg/kg	30	5	N.D.
3,3'-Dimethybenzidine CAS:119-93-7	mg/kg	30	5	N.D.
4,4'-Methylenedi-o-toluidine CAS:838-88-0	mg/kg	30	5	N.D.
p-Cresidine CAS:120-71-8	mg/kg	30	5	N.D.



Test Item(s)	Unit	Limit	MDL	Test Result(s) 17+18+19
4,4'-Methylenebis[2-chloroaniline] CAS:101-14-4	mg/kg	30	5	N.D.
4,4'-Oxydianiline CAS:101-80-4	mg/kg	30	5	N.D.
4,4'-Thiodianiline CAS:139-65-1	mg/kg	30	5	N.D.
2-Aminotoluene CAS:95-53-4	mg/kg	30	5	N.D.
2,4-Toluylendiamine CAS:95-80-7	mg/kg	30	5	N.D.
2,4,5-Trimethylaniline CAS:137-17-7	mg/kg	30	5	N.D.
o-Anisidine CAS:90-04-0	mg/kg	30	5	N.D.
4-Aminoazobenzene CAS:60-09-3	mg/kg	30	5	N.D.
Co	Conformity			

#### Remark:

1. As specified by client, the submitted samples were mixed to test, the test points: 17+18+19

Note: 4-aminoazobenzene: The EN ISO 14362-1:2017 or ISO 17234-1:2020 methods will enable further cleavage of 4-aminoazobenzene to aniline and / or 1,4-phenylenediamine. If aniline and / or 1,4-phenylenediamine are detected, 4-aminoazobenzene shall be further determined by EN ISO 14362-3:2017 or ISO 17234-2:2011.

#### - Color fastness to rubbing

**Test Method:** ISO 105-X12:2016

Rubbing finger: Cylinder

The time of conditioning as well as the atmospheric conditions during testing: 20.6°C, 63 %R.H., 4 hrs

The long direction of the specimen Endwise/Crossrange The percentage of soak of wet rubbing cloth: 95%~100%

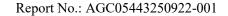
	Test 1		
Test point	Colour fastness to	Conclusion	
	Dry rubbing	Wet rubbing	
17	4-5	4-5	Conformity
18	4-5	4-5	Conformity
19	4	4-5	Conformity
Limit (Client's Requirement)	≥2-3	≥2-3	/

#### Note:

Colour Fastness Grade:

Grade 5 = No Colour Change (Best Grade)

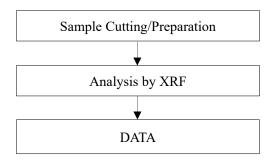
Grade 1 = Colour Change Seriously (Bad Grade)



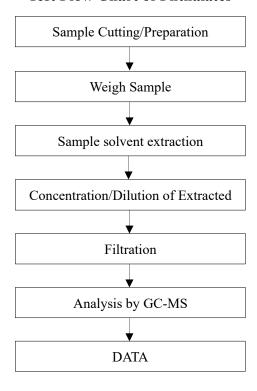


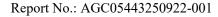
9 grades in gray sample card: 5, 4-5, 4, 3-4, 3, 2-3, 2, 1-2, 1.

#### **Test Flow Chart of XRF**



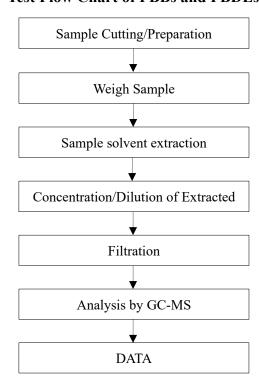
#### **Test Flow Chart of Phthalates**







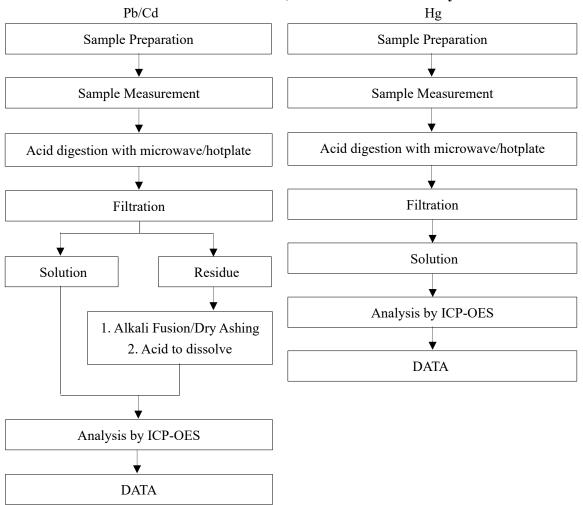
### **Test Flow Chart of PBBs and PBDEs**







# Test Flow Chart of Lead, Cadmium and Mercury

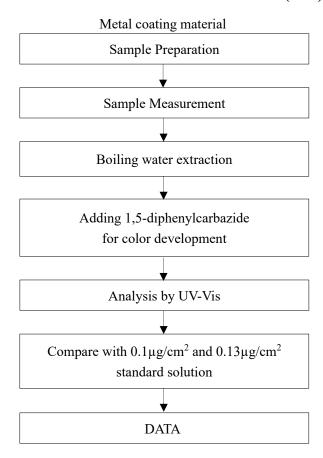


These sample were dissolved totally by pre-conditioning method according to above flow chart





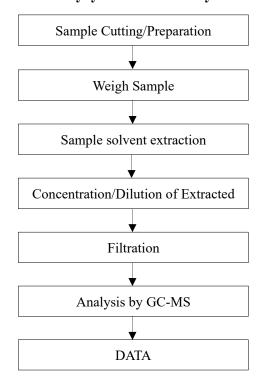
# Test Flow Chart of Hexavalent Chromium (Cr6+)







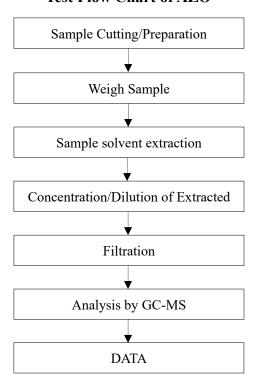
# **Test Flow Chart of Polycyclic-aromatic Hydrocarbons (PAHs)**







#### **Test Flow Chart of AZO**





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- 3. The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.
- 4. In the event of the improper use of the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.
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- 6. The Company will not be liable for or accept responsibility for any loss or damage however arising from the use of information contained in any of its Reports or in any communication whatsoever about its said tests or investigations. 7. Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.
- 8. The Company is not responsible for recalling the electronic version of the original report when any revision is made to them. The Client assumes the responsibility to providing the revised version to any interested party who uses them.
- 9. Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of six years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.

\*\*\* End of Report \*\*\*