



# TEST REPORT

**Report No.** ..... : WTF24F05106359A4C

**Applicant** ..... : Mid Ocean Brands B.V.

**Address** ..... : 7/F., Kings Tower, 111 King Lam Street, Cheung Sha Wan,  
Kowloon, Hong Kong

**Manufacturer** ..... : 114697

**Sample Name** ..... : Straight umbrella

**Sample Model** ..... : MO8776, MO8779, MU3002, MU3004, MU3006, MO8581,  
MU7008, MU9001, MU9003

**Test Requested** ..... : Refer to next page (s)

**Test Method** ..... : Refer to next page (s)

**Test Conclusion** ..... : **Pass** (please refer to next pages for details)

**Date of Receipt sample** ..... : 2024-05-09 & 2024-06-06 & 2024-06-28 & 2024-08-21 &  
2024-10-14

**Testing period** ..... : 2024-05-09 to 2024-05-20 & 2024-06-06 to 2024-06-13 &  
2024-06-28 to 2024-07-04 & 2024-08-21 to 2024-08-26 &  
2024-10-14 & 2024-10-18

**Date of Issue** ..... : 2024-10-21

**Test Result** ..... : Refer to next page (s)

**Note** ..... : As specified by client, only test the designated sample.

## Prepared By:

### Waltek Testing Group (Foshan) Co., Ltd.

Address: No.13-19, 2/F., 2nd Building, Sunlink Machinery City, Xingye 4 Road, Guanglong Industrial Park,  
Chihua Neighborhood Committee, Chencun Town, Shunde District, Foshan, Guangdong, China  
Tel:+86-757-23811398 Fax:+86-757-23811381 E-mail:info@waltek.com.cn

Signed for and on behalf of  
Waltek Testing Group (Foshan) Co., Ltd.

*Swing Liang*

Swing.Liang



WTF24F05106359A4C



Report No.: WTF24F05106359A4C

Job No.: FSW2024051041155CJ

**Summary**

Item No.	Test Requested	Test Conclusion
1	Determination of Lead content in the submitted sample in accordance with REACH regulation Annex XVII Entries 63 (EC) No. 1907/2006 and the amendment No. 836/2012 and (EU) 2015/628	Pass
2	Determination of Cadmium content in the submitted sample in accordance with REACH regulation Annex XVII Entries 23 (EC) No. 1907/2006 and the amendment No. 552/2009, No. 494/2011, No. 835/2012 and (EU) 2016/217	Pass
3	Determination of specified Phthalates content according to Annex XVII Items 51 & 52 of the REACH Regulation (EC) No. 1907/2006 & Amendment No. 552/2009	Pass
4	Determination of specified Polycyclic Aromatic Hydrocarbons (PAHs) content in submitted sample in accordance with Entries 50 of Annex XVII of REACH Regulation (EC) No 1907/2006 and its amendment Regulation (EU) No 1272/2013.	Pass
5	Determine the specified AZO Colorants contents in the submitted sample in according to the Entries 43 in Annex XVII of the REACH Regulation (EC) No.1907/2006 and the Amendment Regulation (EC) No.552/ 2009 & No.126/ 2013 (previously restricted under Directive 2002/61/EC).	Pass
6	As requested by the applicant, to test Colour Fastness to Rubbing in the submitted sample.	Pass
7	As requested by the applicant, to determine the Pentachlorophenol and its salts and esters (PCP) content in the submitted sample with reference to Regulation (EU)2019/1021 and its amendment(EU) 2020/784&(EU)2020/1203&(EU)2020/1204&(EU)2021/115& (EU)2021/277&(EU)2022/2291& (EU) 2023/1608.	Pass
8	As requested by the applicant, determination of the released formaldehyde content in submitted sample	Pass





Report No.: WTF24F05106359A4C

Job No.: FSW2024051041155CJ

Sample photo:



1. MO8776



2. MO8779



3. MU3002



4. MU3004



5. MU9003



6. MU9001



Report No.: WTF24F05106359A4C

Job No.: FSW2024051041155CJ



**7. MU3006**



**8. MO8581**



**9. MU7008**





Report No.: WTF24F05106359A4C

Job No.: FSW2024051041155CJ

**Test Results:****1) Lead (Pb)**

Test Method: With reference to IEC 62321-5:2013, the analysis was performed by ICP-OES.

Test Item	LOQ (mg/kg)	Results (mg/kg)		Limit (mg/kg)
		No.1	No.2	
Lead(Pb)	2	ND	93	500
Conclusion	--	Pass	Pass	--

Test Item	LOQ (mg/kg)	Results (mg/kg)		Limit (mg/kg)
		No.3+No.4+No.7	No.5	
Lead(Pb)	2	ND*	ND	500
Conclusion	--	Pass	Pass	--

Test Item	LOQ (mg/kg)	Results (mg/kg)		Limit (mg/kg)
		No.6	No.8	
Lead(Pb)	2	ND	ND	500
Conclusion	--	Pass	Pass	--

Test Item	LOQ (mg/kg)	Results (mg/kg)		Limit (mg/kg)
		No.9+No.10	No.11	
Lead(Pb)	2	ND*	ND	500
Conclusion	--	Pass	Pass	--

Test Item	LOQ (mg/kg)	Results (mg/kg)		Limit (mg/kg)
		No.12+No.13+No.16	No.14	
Lead(Pb)	2	ND*	ND	500
Conclusion	--	Pass	Pass	--

Test Item	LOQ (mg/kg)	Results (mg/kg)		Limit (mg/kg)
		No.15	No.17	
Lead(Pb)	2	ND	ND	500
Conclusion	--	Pass	Pass	--





Report No.: WTF24F05106359A4C

Job No.: FSW2024051041155CJ

Test Item	LOQ (mg/kg)	Results (mg/kg)		Limit (mg/kg)
		No.18+No.19+No.20	No.21	
Lead(Pb)	2	ND*	ND	500
Conclusion	--	Pass	Pass	--

Test Item	LOQ (mg/kg)	Results (mg/kg)		Limit (mg/kg)
		No.22	No.23	
Lead(Pb)	2	ND	ND	500
Conclusion	--	Pass	Pass	--

Test Item	LOQ (mg/kg)	Results (mg/kg)		Limit (mg/kg)
		No.24	No.25+No.29+No.34	
Lead(Pb)	2	ND	436*	500
Conclusion	--	Pass	Pass	--

Test Item	LOQ (mg/kg)	Results (mg/kg)		Limit (mg/kg)
		No.26	No.27	
Lead(Pb)	2	ND	ND	500
Conclusion	--	Pass	Pass	--

Test Item	LOQ (mg/kg)	Results (mg/kg)		Limit (mg/kg)
		No.28	No.30	
Lead(Pb)	2	ND	ND	500
Conclusion	--	Pass	Pass	--

Test Item	LOQ (mg/kg)	Results (mg/kg)		Limit (mg/kg)
		No.31	No.32+No.42+No.48	
Lead(Pb)	2	ND	ND*	500
Conclusion	--	Pass	Pass	--



Report No.: WTF24F05106359A4C

Job No.: FSW2024051041155CJ

Test Item	LOQ (mg/kg)	Results (mg/kg)		Limit (mg/kg)
		No.33	No.35+No.36+No.40	
Lead(Pb)	2	29	ND*	500
Conclusion	--	Pass	Pass	--

Test Item	LOQ (mg/kg)	Results (mg/kg)		Limit (mg/kg)
		No.37	No.38	
Lead(Pb)	2	60	ND	500
Conclusion	--	Pass	Pass	--

Test Item	LOQ (mg/kg)	Results (mg/kg)		Limit (mg/kg)
		No.39	No.41+No.46+No.47	
Lead(Pb)	2	ND	ND*	500
Conclusion	--	Pass	Pass	--

Test Item	LOQ (mg/kg)	Results (mg/kg)		Limit (mg/kg)
		No.43+No.54	No.44(R4)+No.45(R4)+ No.49(R4)	
Lead(Pb)	2	24*	ND*	500
Conclusion	--	Pass	Pass	--

Test Item	LOQ (mg/kg)	Results (mg/kg)		Limit (mg/kg)
		No.51+No.52	No.53(R1)	
Lead(Pb)	2	ND*	ND	500
Conclusion	--	Pass	Pass	--

Test Item	LOQ (mg/kg)	Results (mg/kg)	Limit (mg/kg)
		No.50+No.55	
Lead(Pb)	2	ND*	500
Conclusion	--	Pass	--



Report No.: WTF24F05106359A4C

Job No.: FSW2024051041155CJ

**Note:**

- (1) mg/kg = milligram per kilogram
- (2) ND = Not Detected (lower than LOQ)
- (3) LOQ = Limit of quantitation
- (4) Limit of Lead was quoted from REACH regulation Annex XVII Item 63 (EC) No. 1907/2006 and the amendment No. 836/2012 and (EU) 2015/628.
- (5) "\*" = Results are calculated by the minimum weight of mixed components.

**2) Cadmium (Cd)**

Test Method: With reference to IEC 62321-5:2013, the analysis was performed by ICP-OES.

Test Item	LOQ (mg/kg)	Results (mg/kg)	
		No.1	No.2
Cadmium(Cd)	2	ND	ND
<b>Conclusion</b>	--	<b>Pass</b>	<b>Pass</b>

Test Item	LOQ (mg/kg)	Results (mg/kg)	
		No.3+No.4+No.7	No.5
Cadmium(Cd)	2	ND*	ND
<b>Conclusion</b>	--	<b>Pass</b>	<b>Pass</b>

Test Item	LOQ (mg/kg)	Results (mg/kg)	
		No.12+No.13+No.16	No.14
Cadmium(Cd)	2	ND*	ND
<b>Conclusion</b>	--	<b>Pass</b>	<b>Pass</b>

Test Item	LOQ (mg/kg)	Results (mg/kg)	
		No.15	No.18+No.19+No.20
Cadmium(Cd)	2	ND	ND*
<b>Conclusion</b>	--	<b>Pass</b>	<b>Pass</b>





Report No.: WTF24F05106359A4C

Job No.: FSW2024051041155CJ

Test Item	LOQ (mg/kg)	Results (mg/kg)	
		No.21	No.22
Cadmium(Cd)	2	ND	ND
Conclusion	--	Pass	Pass

Test Item	LOQ (mg/kg)	Results (mg/kg)	
		No.24	No.25+No.29+No.34
Cadmium(Cd)	2	ND	ND*
Conclusion	--	Pass	Pass

Test Item	LOQ (mg/kg)	Results (mg/kg)	
		No.27	No.28
Cadmium(Cd)	2	ND	ND
Conclusion	--	Pass	Pass

Test Item	LOQ (mg/kg)	Results (mg/kg)	
		No.30	No.31
Cadmium(Cd)	2	ND	ND
Conclusion	--	Pass	Pass

Test Item	LOQ (mg/kg)	Results (mg/kg)	
		No.33	No.37
Cadmium(Cd)	2	12	ND
Conclusion	--	Pass	Pass

Test Item	LOQ (mg/kg)	Results (mg/kg)	
		No.38	No.39
Cadmium(Cd)	2	ND	ND
Conclusion	--	Pass	Pass



Report No.: WTF24F05106359A4C

Job No.: FSW2024051041155CJ

Test Item	LOQ (mg/kg)	Results (mg/kg)	
		No.43+No.54	No.53(R1)
Cadmium(Cd)	2	ND*	ND
Conclusion	--	Pass	Pass

**Note:**

- (1) mg/kg = milligram per kilogram  
(2) ND = Not Detected (lower than LOQ)  
(3) LOQ = Limit of quantitation  
(4) Limit of Cadmium according to REACH regulation Annex XVII Item 23 (EC) No. 1907/2006 and the amendment No. 552/2009, No. 494/2011 and No. 835/2012 and (EU) 2016/217.

Category	Limit (mg/kg)
Wet paint	100
Surface coating	1000
Plastic	100
Metal parts of jewellery and hair accessories	100

- (5) "\*" = Results are calculated by the minimum weight of mixed components.

# WALTEK



Report No.: WTF24F05106359A4C

Job No.: FSW2024051041155CJ

**3) Phthalates**

Test Method: With reference to EN14372:2004, by Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

Test Items	LOQ (%)	Results (%)		Limit (%)
		No.1	No.2	
Benzyl butyl phthalate (BBP)	0.005	ND	ND	sum of four phthalates < 0.1
Di (2-ethyl hexyl)- phthalate (DEHP)	0.005	ND	0.031	
Dibutyl phthalate (DBP)	0.005	ND	0.010	
Diisobutyl phthalate (DIBP)	0.005	ND	ND	
Diisodecyl phthalate (DIDP)	0.01	ND	ND	sum of three phthalates < 0.1
Diisononyl phthalate (DINP)	0.01	ND	ND	
Di-n-octyl phthalate (DNOP)	0.005	ND	ND	
<b>Conclusion</b>	--	<b>Pass</b>	<b>Pass</b>	--

Test Items	LOQ (%)	Results (%)		Limit (%)
		No.3+No.4+No.7	No.5	
Benzyl butyl phthalate (BBP)	0.005	ND*	ND	sum of four phthalates < 0.1
Di (2-ethyl hexyl)- phthalate (DEHP)	0.005	ND*	ND	
Dibutyl phthalate (DBP)	0.005	ND*	ND	
Diisobutyl phthalate (DIBP)	0.005	ND*	ND	
Diisodecyl phthalate (DIDP)	0.01	ND*	ND	sum of three phthalates < 0.1
Diisononyl phthalate (DINP)	0.01	ND*	ND	
Di-n-octyl phthalate (DNOP)	0.005	ND*	ND	
<b>Conclusion</b>	--	<b>Pass</b>	<b>Pass</b>	--





Report No.: WTF24F05106359A4C

Job No.: FSW2024051041155CJ

Test Items	LOQ (%)	Results (%)		Limit (%)
		No.12+No.13+No.16	No.14	
Benzyl butyl phthalate (BBP)	0.005	ND*	ND	sum of four phthalates < 0.1
Di (2-ethyl hexyl)- phthalate (DEHP)	0.005	ND*	ND	
Dibutyl phthalate (DBP)	0.005	ND*	ND	
Diisobutyl phthalate (DIBP)	0.005	ND*	ND	
Diisodecyl phthalate (DIDP)	0.01	ND*	ND	sum of three phthalates < 0.1
Diisononyl phthalate (DINP)	0.01	ND*	ND	
Di-n-octyl phthalate (DNOP)	0.005	ND*	ND	
Conclusion	--	Pass	Pass	--

Test Items	LOQ (%)	Results (%)		Limit (%)
		No.18+No.19+No.20	No.21	
Benzyl butyl phthalate (BBP)	0.005	ND*	ND	sum of four phthalates < 0.1
Di (2-ethyl hexyl)- phthalate (DEHP)	0.005	ND*	ND	
Dibutyl phthalate (DBP)	0.005	ND*	ND	
Diisobutyl phthalate (DIBP)	0.005	ND*	ND	
Diisodecyl phthalate (DIDP)	0.01	ND*	ND	sum of three phthalates < 0.1
Diisononyl phthalate (DINP)	0.01	ND*	ND	
Di-n-octyl phthalate (DNOP)	0.005	ND*	ND	
Conclusion	--	Pass	Pass	--



Report No.: WTF24F05106359A4C

Job No.: FSW2024051041155CJ

Test Items	LOQ (%)	Results (%)		Limit (%)
		No.22	No.24	
Benzyl butyl phthalate (BBP)	0.005	ND	ND	sum of four phthalates < 0.1
Di (2-ethyl hexyl)- phthalate (DEHP)	0.005	ND	ND	
Dibutyl phthalate (DBP)	0.005	ND	ND	
Diisobutyl phthalate (DIBP)	0.005	ND	ND	
Diisodecyl phthalate (DIDP)	0.01	ND	ND	sum of three phthalates < 0.1
Diisononyl phthalate (DINP)	0.01	ND	ND	
Di-n-octyl phthalate (DNOP)	0.005	ND	ND	
Conclusion	--	Pass	Pass	--

Test Items	LOQ (%)	Results (%)		Limit (%)
		No.25+No.29+No.34	No.33	
Benzyl butyl phthalate (BBP)	0.005	ND*	ND	sum of four phthalates < 0.1
Di (2-ethyl hexyl)- phthalate (DEHP)	0.005	0.012*	ND	
Dibutyl phthalate (DBP)	0.005	ND*	ND	
Diisobutyl phthalate (DIBP)	0.005	ND*	ND	
Diisodecyl phthalate (DIDP)	0.01	ND*	ND	sum of three phthalates < 0.1
Diisononyl phthalate (DINP)	0.01	ND*	ND	
Di-n-octyl phthalate (DNOP)	0.005	ND*	ND	
Conclusion	--	Pass	Pass	--



Report No.: WTF24F05106359A4C

Job No.: FSW2024051041155CJ

Test Items	LOQ (%)	Results (%)		Limit (%)
		No.37	No.43+No.54	
Benzyl butyl phthalate (BBP)	0.005	ND	ND*	sum of four phthalates < 0.1
Di (2-ethyl hexyl)- phthalate (DEHP)	0.005	0.011	0.016*	
Dibutyl phthalate (DBP)	0.005	ND	0.018*	
Diisobutyl phthalate (DIBP)	0.005	ND	ND*	
Diisodecyl phthalate (DIDP)	0.01	ND	ND*	sum of three phthalates < 0.1
Diisononyl phthalate (DINP)	0.01	ND	ND*	
Di-n-octyl phthalate (DNOP)	0.005	ND	ND*	
Conclusion	--	Pass	Pass	--

Test Items	LOQ (%)	Results (%)	Limit (%)
		No.53(R1)	
Benzyl butyl phthalate (BBP)	0.005	ND	sum of four phthalates < 0.1
Di (2-ethyl hexyl)- phthalate (DEHP)	0.005	ND	
Dibutyl phthalate (DBP)	0.005	ND	
Diisobutyl phthalate (DIBP)	0.005	ND	
Diisodecyl phthalate (DIDP)	0.01	ND	sum of three phthalates < 0.1
Diisononyl phthalate (DINP)	0.01	ND	
Di-n-octyl phthalate (DNOP)	0.005	ND	
Conclusion	--	Pass	--

**Note:**

DBP= Dibutyl phthalate

BBP= Benzyl butyl phthalate

DEHP= Bis-(2-ethylhexyl)- phthalate

DINP= Di-isononyl phthalate

DNOP= Di-n-octyl phthalate

DIDP= Di-isodecyl phthalate

DIBP= Diisobutyl phthalate

(1) % = percentage by weight

(2) ND = Not Detected or lower than limit of quantitation

(3) LOQ = Limit of quantitation

(4) "&lt;" = less than

(5) The above limit was quoted according to Annex XVII Items 51 & 52 of the REACH Regulation (EC) No. 1907/2006 & Amendment No. 552/2009 & No. 2018/2005 (formerly known as Directive 2005/84/EC) for phthalate content in toys and child care articles.

(6) "\*" = Results are calculated by the minimum weight of mixed components.





Report No.: WTF24F05106359A4C

Job No.: FSW2024051041155CJ

**4) Polycyclic Aromatic Hydrocarbons (PAHs)**

Test Method: With reference to AFPS GS 2019:01 PAK method, analysis was performed by Gas Chromatographic Mass Spectrometry (GC-MS).

Test Items	Unit	Results		LOQ	Limit
		No.1	No.2		
Benzo(a)anthracene (BaA)	mg/kg	ND	ND	0.2	1.0
Chrysene (CHR)	mg/kg	ND	ND	0.2	1.0
Benzo[b]fluoranthene (BbFA)	mg/kg	ND	ND	0.2	1.0
Benzo[k]fluoranthene (BkFA)	mg/kg	ND	ND	0.2	1.0
Benzo(a)pyrene (BaP)	mg/kg	ND	ND	0.2	1.0
Dibenzo[a,h]anthracene (DBAhA)	mg/kg	ND	ND	0.2	1.0
Benzo[j]fluoranthene (BjFA)	mg/kg	ND	ND	0.2	1.0
Benzo[e]Pyrene (BeP)	mg/kg	ND	ND	0.2	1.0
Conclusion	--	Pass	Pass	--	--

Test Items	Unit	Results		LOQ	Limit
		No.3+No.4+No.7	No.5		
Benzo(a)anthracene (BaA)	mg/kg	ND*	ND	0.2	1.0
Chrysene (CHR)	mg/kg	ND*	ND	0.2	1.0
Benzo[b]fluoranthene (BbFA)	mg/kg	ND*	ND	0.2	1.0
Benzo[k]fluoranthene (BkFA)	mg/kg	ND*	ND	0.2	1.0
Benzo(a)pyrene (BaP)	mg/kg	ND*	ND	0.2	1.0
Dibenzo[a,h]anthracene (DBAhA)	mg/kg	ND*	ND	0.2	1.0
Benzo[j]fluoranthene (BjFA)	mg/kg	ND*	ND	0.2	1.0
Benzo[e]Pyrene (BeP)	mg/kg	ND*	ND	0.2	1.0
Conclusion	--	Pass	Pass	--	--



Report No.: WTF24F05106359A4C

Job No.: FSW2024051041155CJ

Test Items	Unit	Results		LOQ	Limit
		No.12+No.13+No.16	No.14		
Benzo(a)anthracene (BaA)	mg/kg	ND*	ND	0.2	1.0
Chrysene (CHR)	mg/kg	ND*	ND	0.2	1.0
Benzo[b]fluoranthene (BbFA)	mg/kg	ND*	ND	0.2	1.0
Benzo[k]fluoranthene (BkFA)	mg/kg	ND*	ND	0.2	1.0
Benzo(a)pyrene (BaP)	mg/kg	ND*	ND	0.2	1.0
Dibenzo[a,h]anthracene (DBAhA)	mg/kg	ND*	ND	0.2	1.0
Benzo[j]fluoranthene (BjFA)	mg/kg	ND*	ND	0.2	1.0
Benzo[e]Pyrene (BeP)	mg/kg	ND*	ND	0.2	1.0
Conclusion	--	Pass	Pass	--	--

Test Items	Unit	Results		LOQ	Limit
		No.18+No.19+No.20	No.21		
Benzo(a)anthracene (BaA)	mg/kg	ND*	ND	0.2	1.0
Chrysene (CHR)	mg/kg	ND*	ND	0.2	1.0
Benzo[b]fluoranthene (BbFA)	mg/kg	ND*	ND	0.2	1.0
Benzo[k]fluoranthene (BkFA)	mg/kg	ND*	ND	0.2	1.0
Benzo(a)pyrene (BaP)	mg/kg	ND*	ND	0.2	1.0
Dibenzo[a,h]anthracene (DBAhA)	mg/kg	ND*	ND	0.2	1.0
Benzo[j]fluoranthene (BjFA)	mg/kg	ND*	ND	0.2	1.0
Benzo[e]Pyrene (BeP)	mg/kg	ND*	ND	0.2	1.0
Conclusion	--	Pass	Pass	--	--



Report No.: WTF24F05106359A4C

Job No.: FSW2024051041155CJ

Test Items	Unit	Results		LOQ	Limit
		No.22	No.24		
Benzo(a)anthracene (BaA)	mg/kg	ND	ND	0.2	1.0
Chrysene (CHR)	mg/kg	ND	ND	0.2	1.0
Benzo[b]fluoranthene (BbFA)	mg/kg	ND	ND	0.2	1.0
Benzo[k]fluoranthene (BkFA)	mg/kg	ND	ND	0.2	1.0
Benzo(a)pyrene (BaP)	mg/kg	ND	ND	0.2	1.0
Dibenzo[a,h]anthracene (DBAhA)	mg/kg	ND	ND	0.2	1.0
Benzo[j]fluoranthene (BjFA)	mg/kg	ND	ND	0.2	1.0
Benzo[e]Pyrene (BeP)	mg/kg	ND	ND	0.2	1.0
Conclusion	--	Pass	Pass	--	--

Test Items	Unit	Results		LOQ	Limit
		No.25+No.29+No.34	No.33		
Benzo(a)anthracene (BaA)	mg/kg	ND*	ND	0.2	1.0
Chrysene (CHR)	mg/kg	ND*	ND	0.2	1.0
Benzo[b]fluoranthene (BbFA)	mg/kg	ND*	ND	0.2	1.0
Benzo[k]fluoranthene (BkFA)	mg/kg	ND*	ND	0.2	1.0
Benzo(a)pyrene (BaP)	mg/kg	ND*	ND	0.2	1.0
Dibenzo[a,h]anthracene (DBAhA)	mg/kg	ND*	ND	0.2	1.0
Benzo[j]fluoranthene (BjFA)	mg/kg	ND*	ND	0.2	1.0
Benzo[e]Pyrene (BeP)	mg/kg	ND*	ND	0.2	1.0
Conclusion	--	Pass	Pass	--	--





Report No.: WTF24F05106359A4C

Job No.: FSW2024051041155CJ

Test Items	Unit	Results		LOQ	Limit
		No.37	No.43+No.54		
Benzo(a)anthracene (BaA)	mg/kg	ND	ND*	0.2	1.0
Chrysene (CHR)	mg/kg	ND	ND*	0.2	1.0
Benzo[b]fluoranthene (BbFA)	mg/kg	ND	ND*	0.2	1.0
Benzo[k]fluoranthene (BkFA)	mg/kg	ND	ND*	0.2	1.0
Benzo(a)pyrene (BaP)	mg/kg	ND	ND*	0.2	1.0
Dibenzo[a,h]anthracene (DBAhA)	mg/kg	ND	ND*	0.2	1.0
Benzo[j]fluoranthene (BjFA)	mg/kg	ND	ND*	0.2	1.0
Benzo[e]Pyrene (BeP)	mg/kg	ND	ND*	0.2	1.0
Conclusion	--	Pass	Pass	--	--

Test Items	Unit	Results	LOQ	Limit
		No.53(R1)		
Benzo(a)anthracene (BaA)	mg/kg	ND	0.2	1.0
Chrysene (CHR)	mg/kg	ND	0.2	1.0
Benzo[b]fluoranthene (BbFA)	mg/kg	ND	0.2	1.0
Benzo[k]fluoranthene (BkFA)	mg/kg	ND	0.2	1.0
Benzo(a)pyrene (BaP)	mg/kg	ND	0.2	1.0
Dibenzo[a,h]anthracene (DBAhA)	mg/kg	ND	0.2	1.0
Benzo[j]fluoranthene (BjFA)	mg/kg	ND	0.2	1.0
Benzo[e]Pyrene (BeP)	mg/kg	ND	0.2	1.0
Conclusion	--	Pass	--	--



Report No.: WTF24F05106359A4C

Job No.: FSW2024051041155CJ

**Note:**

- (1) ND = Not Detected or lower than limit of quantitation
- (2) mg/kg=milligram per kilogram=ppm
- (3) LOQ = Limit of quantitation
- (4) As per Entries 50 of Annex XVII of REACH Regulation (EC) No 1907/2006 and its amendment Regulation (EU) No 1272/2013, Articles shall not be placed on the market for supply to the general public, if 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, under normal or reasonably foreseeable conditions of use, contain more than 1 mg/kg (0,0001 % by weight of this component) of any of the listed PAHs.
- (5) As per Entries 50 of Annex XVII of REACH Regulation (EC) No 1907/2006 and its amendment Regulation (EU) No 1272/2013, Toys, including activity toys, and childcare articles, shall not be placed on the market, if 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, under normal or reasonably foreseeable conditions of use, contain more than 0,5 mg/kg (0,00005 % by weight of this component) of any of the listed PAHs.
- (6) “\*” = Results are calculated by the minimum weight of mixed components.

# WALTEK



Report No.: WTF24F05106359A4C

Job No.: FSW2024051041155CJ

**5) AZO**

Test Method: With reference to BS EN ISO 14362-1: 2017 and BS EN ISO 14362-3: 2017, analysis was performed by Gas Chromatographic Mass Spectrometry (GC-MS)

No.	Amines Substances	CAS No.	Limit (mg/kg)	Result (mg/kg)
				No.32+No.42+No.48
1	4-Aminobiphenyl	92-67-1	30	ND*
2	Benzidine	92-87-5	30	ND*
3	4-chloro-o-Toluidine	95-69-2	30	ND*
4	2-Naphthylamine	91-59-8	30	ND*
5	o-Aminoazotoluene	97-56-3	30	ND*
6	2-Amino-4-nitrotoluene	99-55-8	30	ND*
7	p-Chloroaniline	106-47-8	30	ND*
8	2,4-diaminoanisol	615-05-4	30	ND*
9	4,4'-Diaminodiphenylmethane	101-77-9	30	ND*
10	3,3'-Dichlorobenzidine	91-94-1	30	ND*
11	3,3'-Dimethoxybenzidine	119-90-4	30	ND*
12	3,3'-Dimethylbenzidine	119-93-7	30	ND*
13	3,3'-Dimethyl-4,4'-diaminodiphenylmethane	838-88-0	30	ND*
14	p-cresinin	120-71-8	30	ND*
15	4,4'-Methylen-bis-(2-chloroaniline)	101-14-4	30	ND*
16	4,4'-Oxydianiline	101-80-4	30	ND*
17	4,4'-Thiodianiline	139-65-1	30	ND*
18	o-Toluidine	95-53-4	30	ND*
19	2,4-Toluylendiamine	95-80-7	30	ND*
20	2,4,5 – Trimethylaniline	137-17-7	30	ND*
21	o-anisidine	90-04-0	30	ND*
22	4-aminoazobenzene	60-09-3	30	ND*
23	2,4-Xylidin	95-68-1	30	ND*
24	2,6-Xylidin	87-62-7	30	ND*
Conclusion		--	--	Pass





Report No.: WTF24F05106359A4C

Job No.: FSW2024051041155CJ

No.	Amines Substances	CAS No.	Limit (mg/kg)	Result (mg/kg)
				No.50+No.55
1	4-Aminobiphenyl	92-67-1	30	ND*
2	Benzidine	92-87-5	30	ND*
3	4-chloro-o-Toluidine	95-69-2	30	ND*
4	2-Naphthylamine	91-59-8	30	ND*
5	o-Aminoazotoluene	97-56-3	30	ND*
6	2-Amino-4-nitrotoluene	99-55-8	30	ND*
7	p-Chloroaniline	106-47-8	30	ND*
8	2,4-diaminoanisol	615-05-4	30	ND*
9	4,4'-Diaminodiphenylmethane	101-77-9	30	ND*
10	3,3'-Dichlorobenzidine	91-94-1	30	ND*
11	3,3'-Dimethoxybenzidine	119-90-4	30	ND*
12	3,3'-Dimethylbenzidine	119-93-7	30	ND*
13	3,3'-Dimethyl-4,4'-diaminodiphenylmethane	838-88-0	30	ND*
14	p-cresinin	120-71-8	30	ND*
15	4,4'-Methylen-bis-(2-chloroaniline)	101-14-4	30	ND*
16	4,4'-Oxydianiline	101-80-4	30	ND*
17	4,4'-Thiodianiline	139-65-1	30	ND*
18	o-Toluidine	95-53-4	30	ND*
19	2,4-Toluylendiamine	95-80-7	30	ND*
20	2,4,5 – Trimethylaniline	137-17-7	30	ND*
21	o-anisidine	90-04-0	30	ND*
22	4-aminoazobenzene	60-09-3	30	ND*
23	2,4-Xylidin	95-68-1	30	ND*
24	2,6-Xylidin	87-62-7	30	ND*
Conclusion		--	--	Pass

**Note:**

- ND = Not Detected or lower than limit of quantitation
- mg/kg=Milligram per kilogram
- Limit of quantitation (mg/kg): Each 5mg/kg
- The CAS-numbers 97-56-3 and 99-55-8 are further reduced to CAS-numbers 95-53-4 and 95-80-7.
- AZO colorants that are able to form 4-aminoazobenzene, generate under the condition of this method aniline and 1,4-phenylenediamine. The presence of these colorants cannot be reliably ascertained without additional information, e.g. the chemical structure of the colorant used.
- “\*” = Results are calculated by the minimum weight of mixed components.



Report No.: WTF24F05106359A4C

Job No.: FSW2024051041155CJ

**6) Colour Fastness to Rubbing**

Colour Fastness to Rubbing							
(ISO 105-X12: 2016; Size of rubbing finger: 16mm diameter.)							
		No.32	No.42	No.48	No.50	No.55	Client's Limit
Length	Dry staining	4-5	4-5	4-5	4-5	4-5	2-3
	Wet staining	4-5	4-5	4-5	4-5	4-5	2-3
Width	Dry staining	4-5	4-5	4-5	4-5	4-5	2-3
	Wet staining	4-5	4-5	4-5	4-5	4-5	2-3
Conclusion		Pass	Pass	Pass	Pass	Pass	--

**Note:**

(1) Grey Scale Rating is based on the 5-step scale of 1 to 5, where 1 is bad and 5 is good.

**7) Pentachlorophenol(PCP)**

Test method: With reference to In-house Method, analysis was performed by GC-MS.

Test Item	LOQ (mg/kg)	Result (mg/kg)	Limit (mg/kg)
		No.44(R4)+No.45(R4)+ No.49(R4)	
Pentachlorophenol and its salts and esters (PCP)	5	ND*	≤5mg/kg in substances, mixtures or articles
Conclusion	--	Pass	--

**Note:**

(1) mg/kg = milligram per kilogram

(2) ND = Not Detected (lower than LOQ)

(3) LOQ = Limit of quantitation

(4) "\*" = Results are calculated by the minimum weight of mixed components.





Report No.: WTF24F05106359A4C

Job No.: FSW2024051041155CJ

**8) Formaldehyde**

Test Method: With reference to EN717-3:1996, analysis was performed by UV-VIS

Test Item	Unit	Result	LOQ	Client's Limit
		No.44(R4)+No.45(R4)+ No.49(R4)		
Formaldehyde (CH <sub>2</sub> O)	mg/kg	38*	10	80
Conclusion	--	Pass	--	--

**Note:**

(1) mg/kg =milligram per kilogram=ppm

(2) LOQ = Limit of quantitation

(3) "\*" = Results are calculated by the minimum weight of mixed components.

**Description for Specimen:**

Specimen No.	Specimen Description
1	Black plastic handle
2	Black plastic cap
3	White plastic button with dark green surface
4	Black plastic handle
5	Black coating
6	Silvery metal tube without black coating
7	Black plastic cap
8	White main fabric
9	White plastic hook(VELCRO)
10	White plastic loop(VELCRO)
11	Silvery metal wire
12	Black plastic shell
13	Black plastic shell
14	Black plastic shell
15	Silvery metal spring with black surface
16	Black plastic shell
17	Silvery metal rivet
18	Black plastic buckle





Report No.: WTF24F05106359A4C

Job No.: FSW2024051041155CJ

Specimen No.	Specimen Description
19	Black plastic buckle
20	Black plastic buckle
21	Black plastic strip
22	Black plastic strip
23	Silvery metal rivet
24	Black sponge handle
25	Black plastic button
26	Silvery metal sheet
27	Dark silvery metal shell
28	Silvery metal strip with black surface
29	Black plastic part
30	Silvery metal shell with black surface
31	Silvery metal shell with black surface
32	Red main fabric
33	Black plastic tube
34	Black plastic stopper
35	Red plastic hook(VELCRO)
36	Red plastic loop(VELCRO)
37	Black plastic handle
38	Dark silvery metal shell
39	Silvery metal spring with black surface
40	Blue plastic hook(VELCRO)
41	Blue plastic loop(VELCRO)
42	Blue main fabric
43	Black plastic cap
44(R4)	Brown wood handle
45(R4)	Brown wood cap
46	Dark blue plastic hook(VELCRO)
47	Dark blue plastic loop(VELCRO)

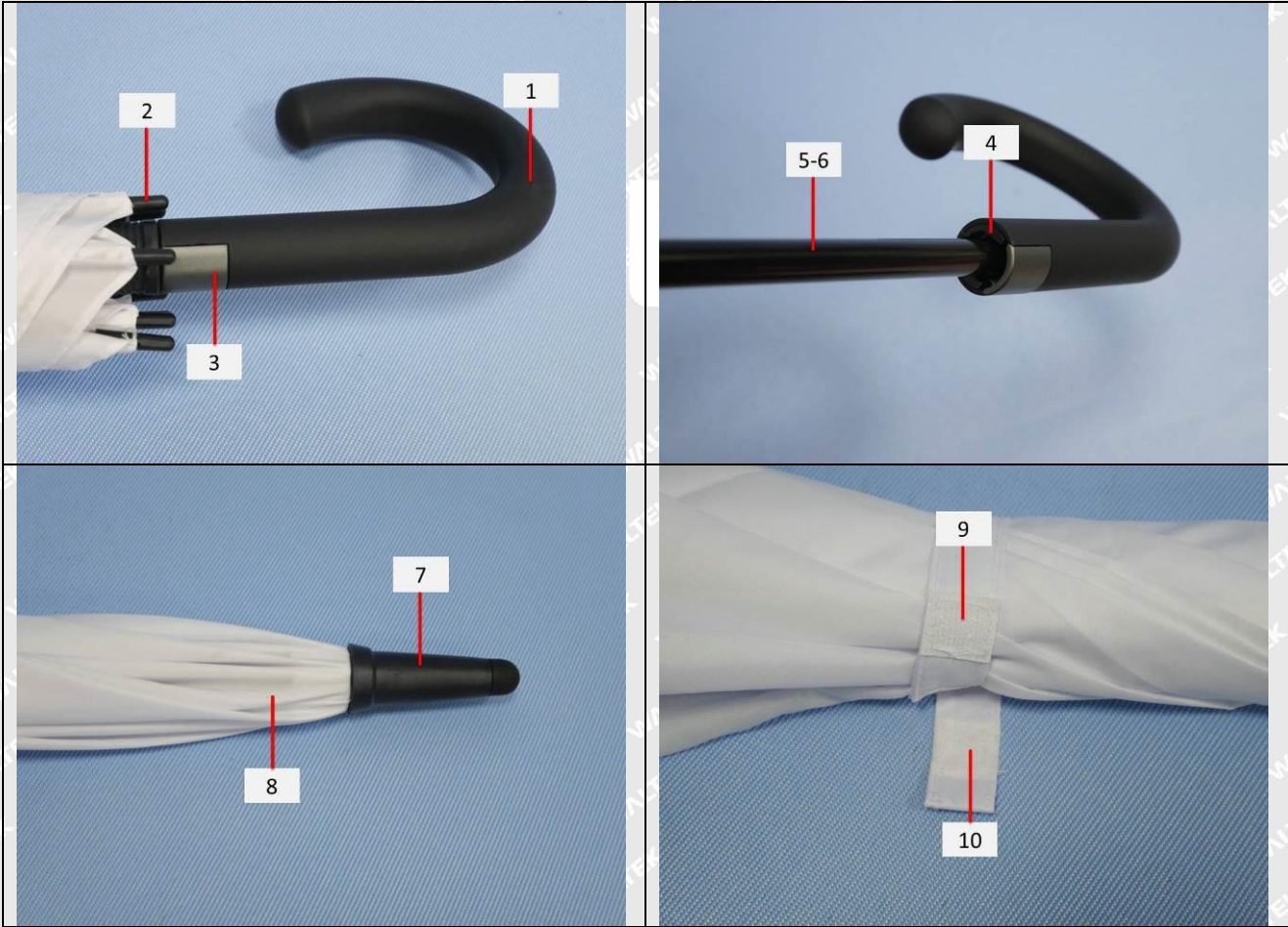


Report No.: WTF24F05106359A4C

Job No.: FSW2024051041155CJ

Specimen No.	Specimen Description
48	Dark blue main fabric
49(R4)	Brown wood tube
50	Black main fabric
51	Black plastic hook(VELCRO)
52	Black plastic loop(VELCRO)
53(R1)	Transparent soft plastic gasket
54	Black plastic part
55	Black main fabric

Photograph of parts tested:

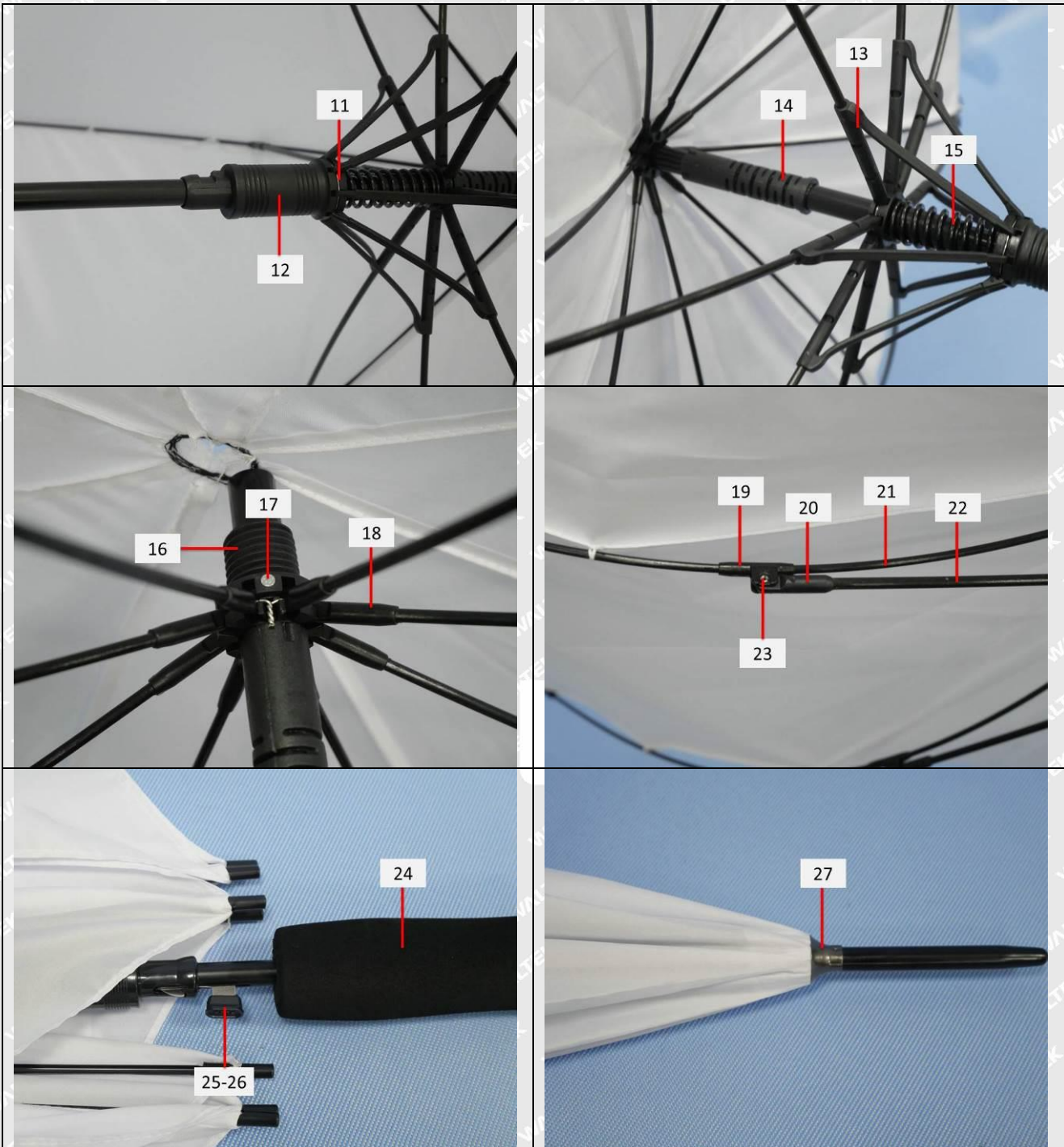






Report No.: WTF24F05106359A4C

Job No.: FSW2024051041155CJ

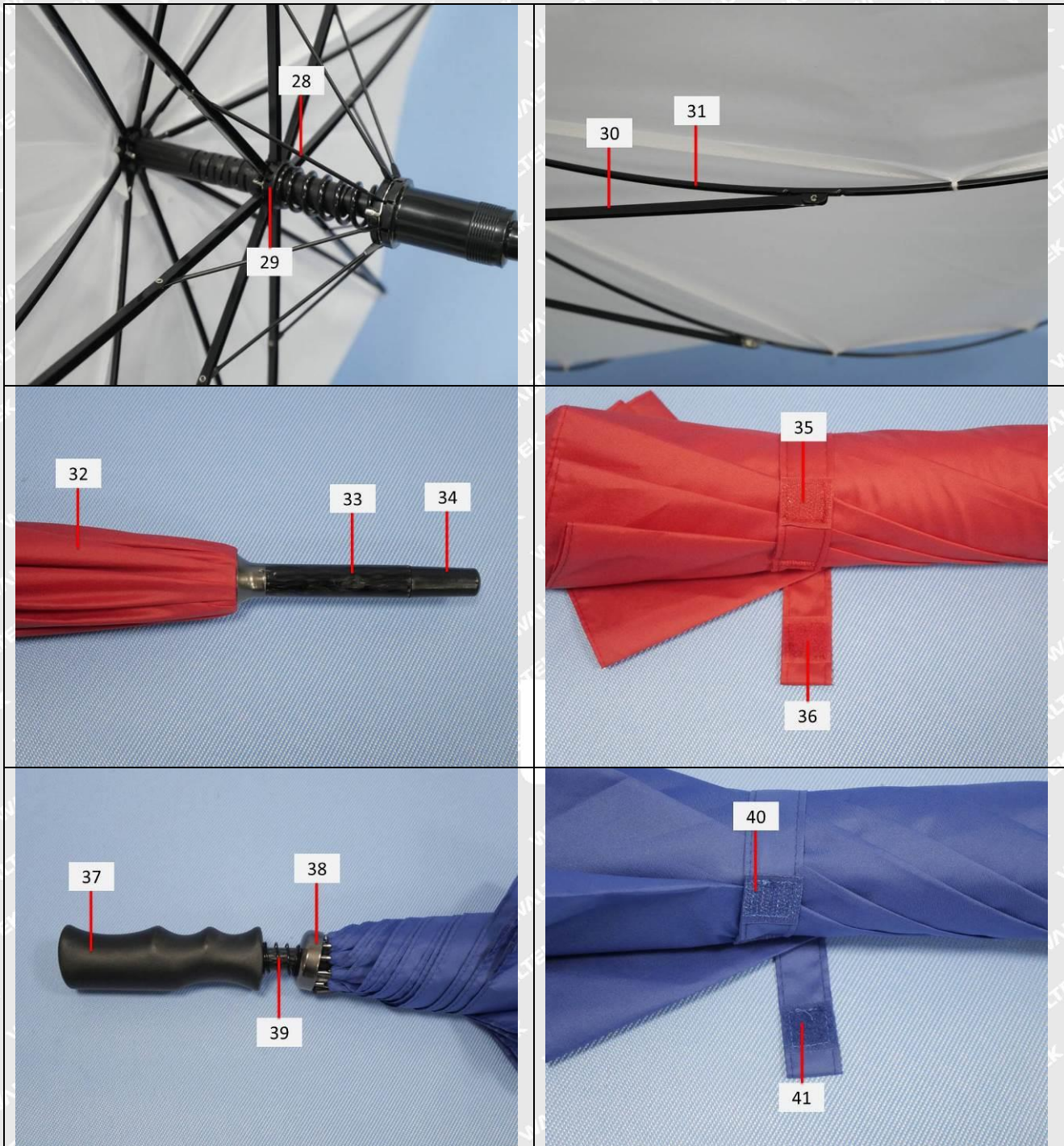






Report No.: WTF24F05106359A4C

Job No.: FSW2024051041155CJ

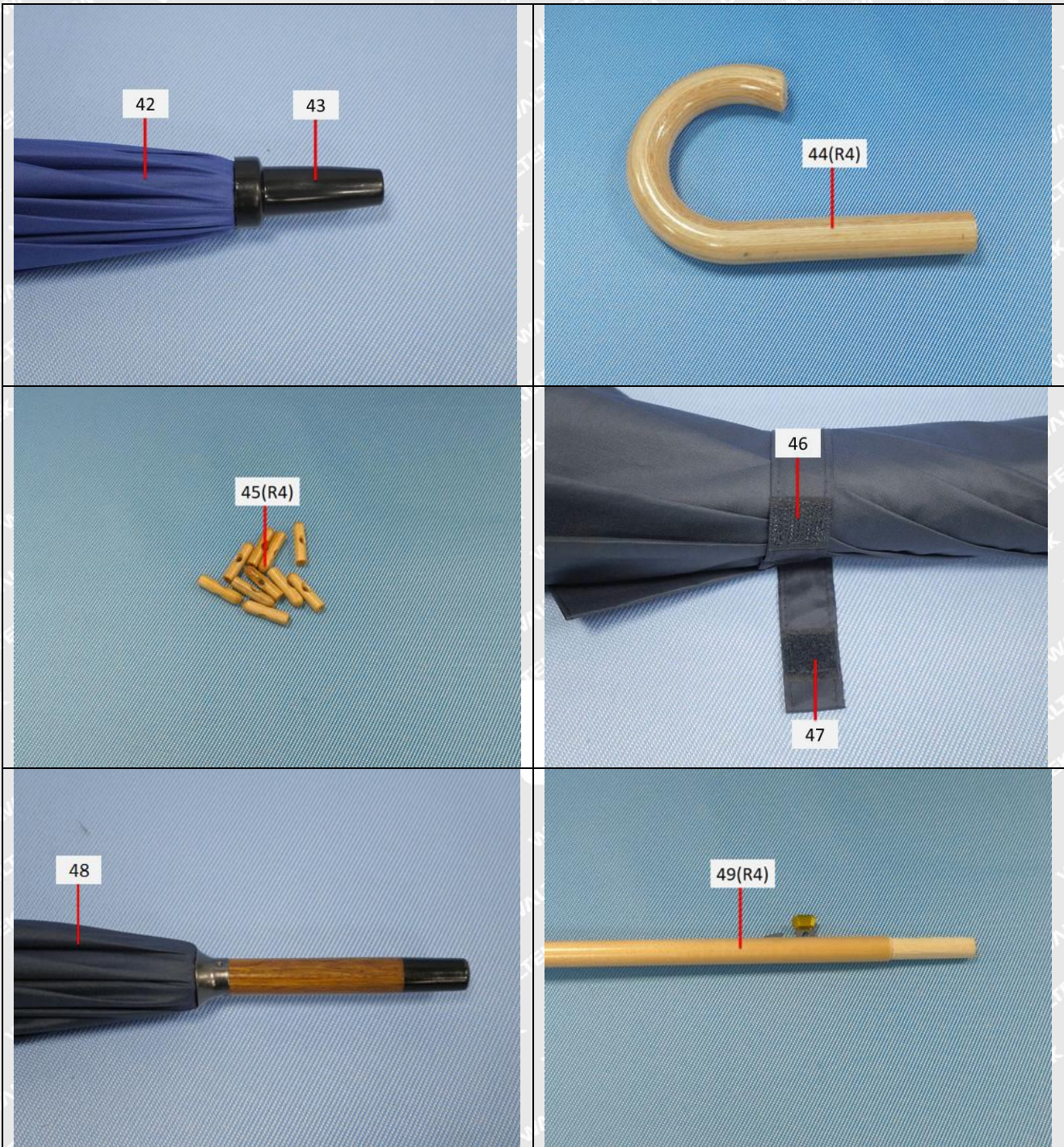






Report No.: WTF24F05106359A4C

Job No.: FSW2024051041155CJ

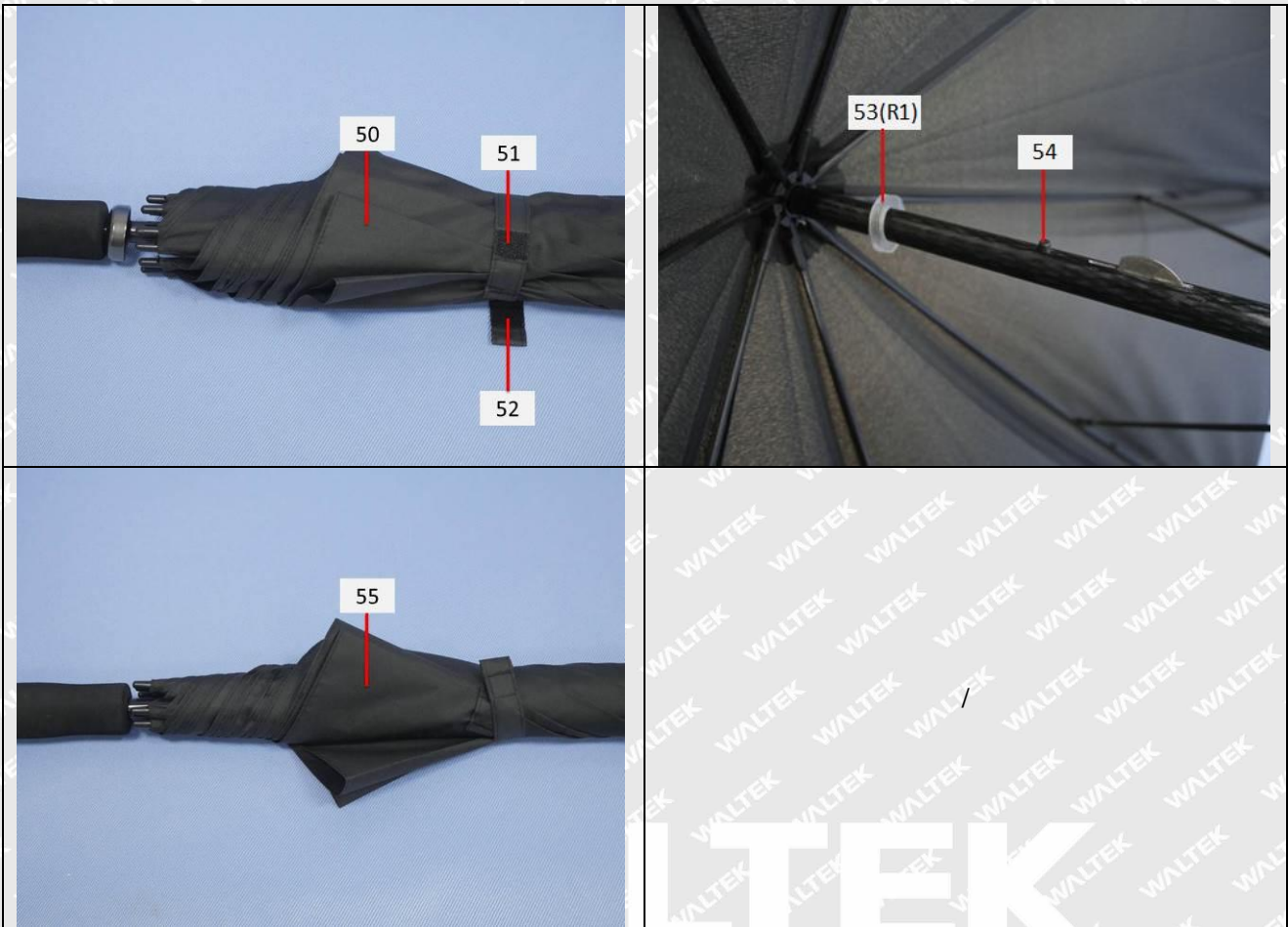






Report No.: WTF24F05106359A4C

Job No.: FSW2024051041155CJ







Report No.: WTF24F05106359A4C

Job No.: FSW2024051041155CJ

Remarks:

1. The results shown in this test report refer only to the sample(s) tested;
2. This test report cannot be reproduced, except in full, without prior written permission of the company;
3. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver;
4. The Applicant name and Address, the sample(s) and sample information was/were provided by the applicant who should be responsible for the authenticity which Waltek hasn't verified;
5. If the report is not stamped with the accreditation recognized seal, it will only be used for scientific research, education, and internal quality control activities, and is not used for the purpose of issuing supporting data to the society.
6. The sample material information (Model No. information) is provided by client, not verified by test laboratory. The samples of reference Model No. are not tested. Test laboratory not responsible for the accuracy, appropriateness, completeness and authenticity of the information provided by client.

===== End of Report =====

# WALTEK