



# TEST REPORT

**Report No.** ..... : WTF22F10200918A1C  
**Applicant** ..... : Mid Ocean Brands B.V.  
**Address** ..... : 7/F., Kings Tower, 111 King Lam Street, Cheung Sha Wan,  
Kowloon, Hong Kong  
**Manufacturer** ..... : 111716  
**Sample Name** ..... : 23.5 inch umbrella  
**Sample Model** ..... : KC5131  
**Test Conclusion** ..... : Refer to next page (s)  
**Date of Receipt sample** ..... : 2022-10-10 & 2022-11-10  
**Testing period** ..... : 2022-10-10 to 2022-10-19 & 2022-11-10 to 2022-11-15  
**Date of Issue** ..... : 2022-11-15  
**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 International Machinery City,  
Chencun, 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



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- Test Requested**..... :
- 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
  - 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
  - 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 & No. 2018/2005
  - 4) 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).
  - 5) As requested by the applicant, to test Colour Fastness to Rubbing in the submitted sample.
  - 6) As specified by client, determination of the free and hydrolysed formaldehyde content in submitted sample

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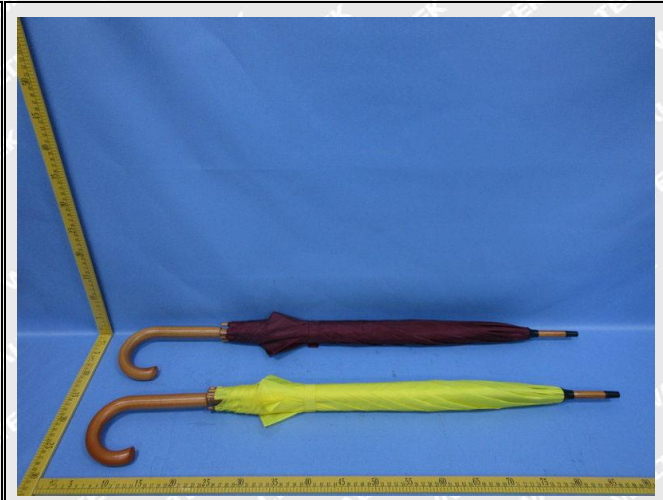


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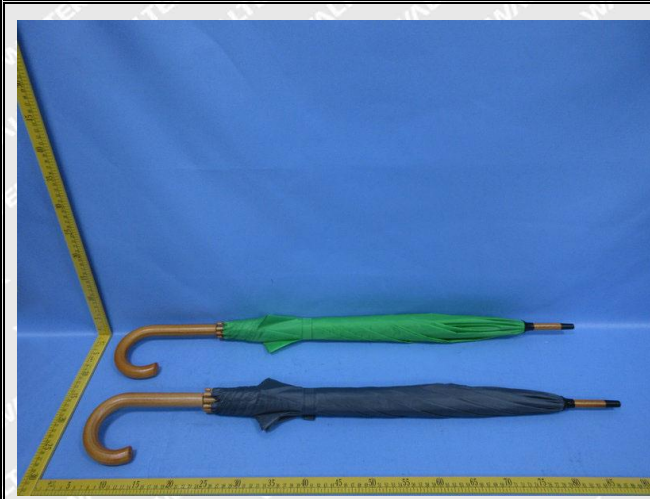
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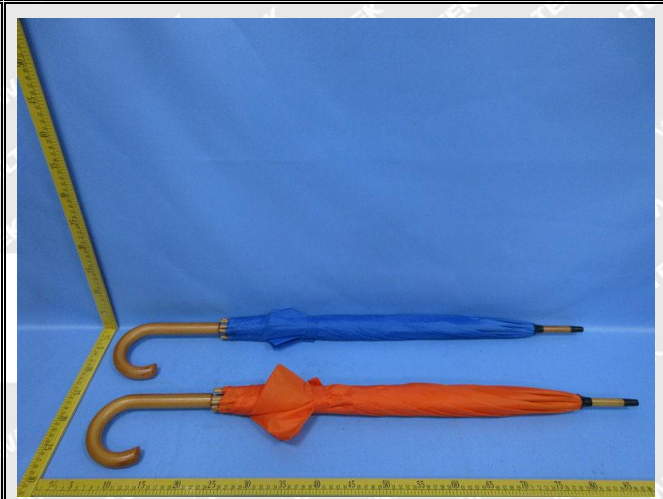
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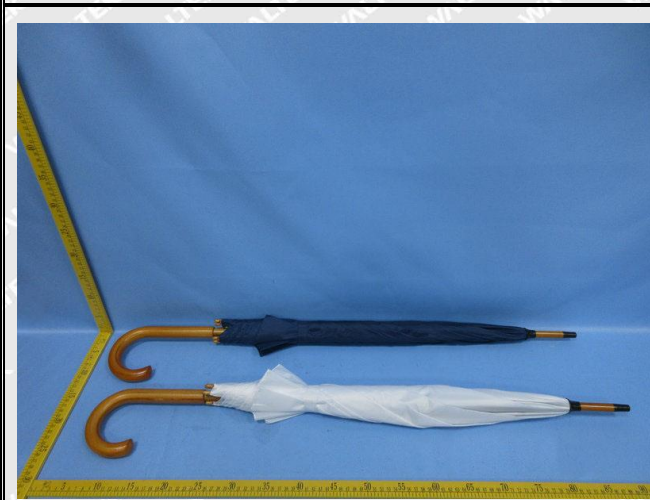
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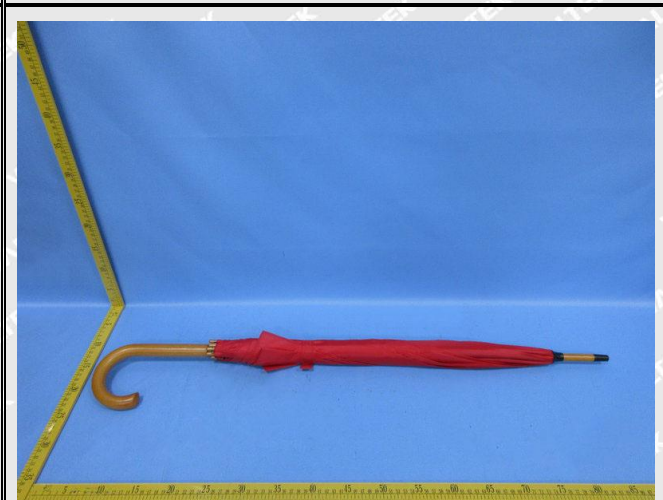
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**Test Results:**

**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+No.3	No.4+No.5+No.6	
Lead(Pb)	2	ND*	ND*	500
<b>Conclusion</b>	--	<b>Pass</b>	<b>Pass</b>	--

Test Item	LOQ (mg/kg)	Results (mg/kg)			Limit (mg/kg)
		No.7+No.8+No.9	No.10	No.11	
Lead(Pb)	2	ND*	ND	ND	500
<b>Conclusion</b>	--	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	--

Test Item	LOQ (mg/kg)	Results (mg/kg)			Limit (mg/kg)
		No.12+No.13	No.14+No.15	No.16+No.18	
Lead(Pb)	2	19*	ND*	ND*	500
<b>Conclusion</b>	--	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	--

Test Item	LOQ (mg/kg)	Results (mg/kg)			Limit (mg/kg)
		No.17	No.19	No.20	
Lead(Pb)	2	ND	ND	ND	500
<b>Conclusion</b>	--	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	--

Test Item	LOQ (mg/kg)	Results (mg/kg)		Limit (mg/kg)
		No.21+No.22+No.23	No.24+No.25+No.26	
Lead(Pb)	2	ND*	ND*	500
<b>Conclusion</b>	--	<b>Pass</b>	<b>Pass</b>	--

Test Item	LOQ (mg/kg)	Results (mg/kg)		Limit (mg/kg)
		No.27+No.28+No.29	No.30+No.31+No.32	
Lead(Pb)	2	ND*	ND*	500
<b>Conclusion</b>	--	<b>Pass</b>	<b>Pass</b>	--



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Test Item	LOQ (mg/kg)	Results (mg/kg)		Limit (mg/kg)
		No.33+No.34+No.35	No.36+No.37+No.38	
Lead(Pb)	2	ND*	ND*	500
<b>Conclusion</b>	--	<b>Pass</b>	<b>Pass</b>	--

Test Item	LOQ (mg/kg)	Results (mg/kg)		Limit (mg/kg)
		No.39	No.40+No.41+No.42	
Lead(Pb)	2	ND	78*	500
<b>Conclusion</b>	--	<b>Pass</b>	<b>Pass</b>	--

**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.

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## 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+No.3	No.4+No.5+No.6
Cadmium(Cd)	2	ND*	ND*
<b>Conclusion</b>	--	<b>Pass</b>	<b>Pass</b>

Test Item	LOQ (mg/kg)	Results (mg/kg)		
		No.7+No.8+No.9	No.10	No.11
Cadmium(Cd)	2	ND*	ND	ND
<b>Conclusion</b>	--	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>

Test Item	LOQ (mg/kg)	Results (mg/kg)	
		No.12+No.13	No.14+No.15
Cadmium(Cd)	2	ND*	ND*
<b>Conclusion</b>	--	<b>Pass</b>	<b>Pass</b>

Test Item	LOQ (mg/kg)	Results (mg/kg)		
		No.17	No.19	No.20
Cadmium(Cd)	2	ND	ND	ND
<b>Conclusion</b>	--	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>

Test Item	LOQ (mg/kg)	Results (mg/kg)	
		No.21+No.22+No.23	No.24+No.25+No.26
Cadmium(Cd)	2	ND*	ND*
<b>Conclusion</b>	--	<b>Pass</b>	<b>Pass</b>

Test Item	LOQ (mg/kg)	Results (mg/kg)	
		No.27+No.28+No.29	No.30+No.31+No.32
Cadmium(Cd)	2	ND*	ND*
<b>Conclusion</b>	--	<b>Pass</b>	<b>Pass</b>



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Test Item	LOQ (mg/kg)	Results (mg/kg)	
		No.33+No.34+No.35	No.36+No.37+No.38
Cadmium(Cd)	2	ND*	ND*
<b>Conclusion</b>	--	<b>Pass</b>	<b>Pass</b>

Test Item	LOQ (mg/kg)	Results (mg/kg)	
		No.39	No.40+No.41+No.42
Cadmium(Cd)	2	ND	ND*
<b>Conclusion</b>	--	<b>Pass</b>	<b>Pass</b>

**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.



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### 3) Phthalates

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

Test Items	LOQ (%)	Results (%)			Limit (%)
		No.12+No.13	No.17	No.20	
Benzyl butyl phthalate (BBP)	0.005	ND*	ND	ND	sum of four phthalates < 0.1
Di (2-ethyl hexyl)- phthalate (DEHP)	0.005	ND*	ND	ND	
Dibutyl phthalate (DBP)	0.005	ND*	ND	ND	
Diisobutyl phthalate (DIBP)	0.005	ND*	ND	ND	
Diisodecyl phthalate (DIDP)	0.01	ND*	ND	ND	sum of three phthalates < 0.1
Diisononyl phthalate (DINP)	0.01	ND*	ND	ND	
Di-n-octyl phthalate (DNOP)	0.005	ND*	ND	ND	
<b>Conclusion</b>	--	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	--

#### 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) "<" = 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.





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



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

**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.
- The CAS-numbers 95-68-1 and 87-62-7 are not proscribed under REACH Regulation (EC) No 1907/2006
- “\*” = Results are calculated by the minimum weight of mixed components.



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### 5) Colour Fastness to Rubbing

Colour Fastness to Rubbing							
(ISO 105-X12: 2016; Size of rubbing finger: 16mm diameter.)							
		No.1	No.2	No.3	No.4	No.5	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
<b>Conclusion</b>		<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	--

Colour Fastness to Rubbing							
(ISO 105-X12: 2016; Size of rubbing finger: 16mm diameter.)							
		No.6	No.7	No.8	No.9	No.10	Client's Limit
Length	Dry staining	4-5	4-5	4-5	4-5	4-5	2-3
	Wet staining	4	4	4	4	4	2-3
Width	Dry staining	4-5	4-5	4-5	4-5	4-5	2-3
	Wet staining	4	4	4	4	4	2-3
<b>Conclusion</b>		<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	--

**Note:**

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



### 6) Formaldehyde

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

Test Item	Unit	Result	MDL	Client's Limit
		No.19		
Formaldehyde (CH <sub>2</sub> O)	mg/kg	28.5	10	80
<b>Conclusion</b>	--	<b>Pass</b>	--	--

**Note:**

- ND = Not Detected or lower than limit of quantitation
- mg/kg =milligram per kilogram=ppm
- LOQ = Limit of quantitation



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**Description for Specimen:**

<b>Specimen No.</b>	<b>Specimen Description</b>
1	Black main fabric
2	Dark green main fabric
3	Yellow main fabric
4	Dark red main fabric
5	Grey main fabric
6	Green main fabric
7	Blue main fabric
8	Orange main fabric
9	Red main fabric
10	Dark blue main fabric
11	White main fabric
12	Black plastic cap
13	Black plastic tube
14	Silvery metal strip with black coating
15	Silvery metal spring with black coating
16	Silvery metal strip
17	Transparent plastic sheet
18	Silvery metal sheet
19	Brown wood handle
20	Black plastic button with golden coating
21	Blue plastic hook(VELCRO)
22	Blue plastic loop(VELCRO)
23	Grey plastic hook(VELCRO)
24	Grey plastic loop(VELCRO)
25	Dark green plastic hook(VELCRO)
26	Dark green plastic loop(VELCRO)
27	Orange plastic hook(VELCRO)
28	Orange plastic loop(VELCRO)
29	White plastic hook(VELCRO)

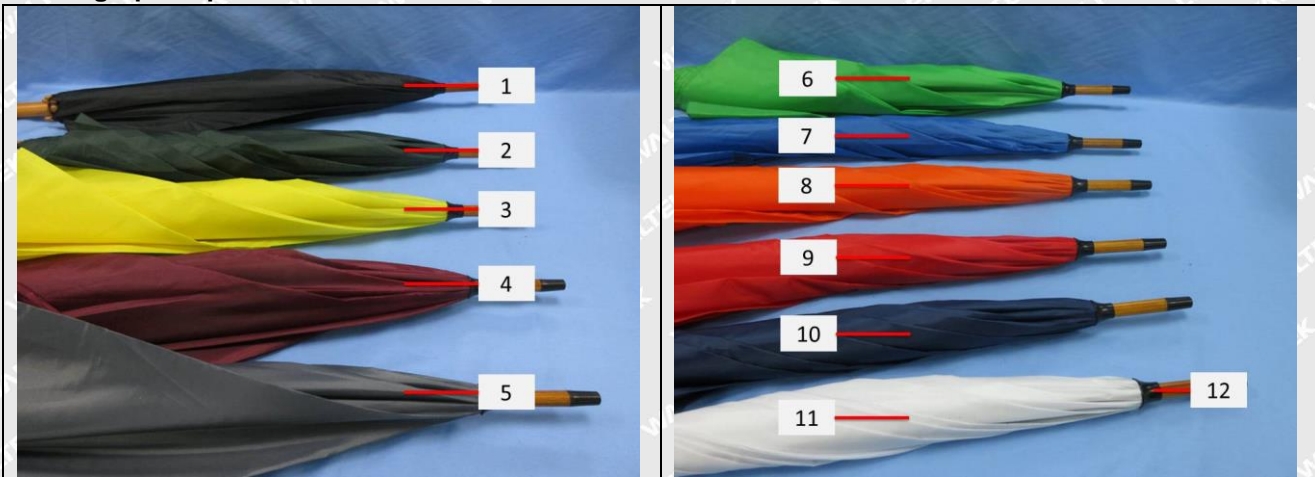


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Specimen No.	Specimen Description
30	White plastic loop(VELCRO)
31	Blue plastic hook(VELCRO)
32	Blue plastic loop(VELCRO)
33	Green plastic hook(VELCRO)
34	Green plastic loop(VELCRO)
35	Black plastic hook(VELCRO)
36	Black plastic loop(VELCRO)
37	Dark red plastic hook(VELCRO)
38	Dark red plastic loop(VELCRO)
39	Red plastic hook(VELCRO)
40	Red plastic loop(VELCRO)
41	Yellow plastic hook(VELCRO)
42	Yellow plastic loop(VELCRO)

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Photograph of parts tested:





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Remarks:

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

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