

TEST REPORT

Report No.: DPHTL2511113042E

Date: Nov 19,2025

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Applicant: Mid Ocean Brands B.V.**Address:** Unit 711-716, 7/F., Tower A, 83 King Lam Street Cheung Sha Wan, Kowloon, Hong Kong

The following sample(s) and sample information was/were submitted and identified by client as:

Sample Name: Double wall mug**Model:** MO2198/MO2199**Vendor code :** 107978**Receiving Date:** Nov 11,2025**Test Period:** From Nov 11,2025 to Nov 17,2025**Add Information:** -**Test Summary:**

#	Test item(s)	Result
1	Item 50 of Annex XVII of REACH Regulation (EC) 1907/2006 & amendment (EU) No 1272/2013 Polycyclic-aromatic hydrocarbons (PAHs) content	PASS
2	Item 23 of Annex XVII of REACH Regulation (EC) 1907/2006 Cadmium content	PASS
3	Item 51&52 of Annex XVII of REACH Regulation (EC) 1907/2006. Phthalate content (DIBP、DEHP、DBP、BBP、DINP、DIDP、DNOP)	PASS
4	Item 63 of Annex XVII of REACH Regulation (EC) 1907/2006 Total Lead content	PASS
5	Dishwasher safe test (complied with the specification of dishwasher safe test according to PAS 54:2003)-BS EN 12875-1:2005	PASS
6	Microwave safe test-BS EN 15284:2007	PASS
7	Thermal shock	SEE DATA

*****Please refer to the following page for detailed results*****

Authorized Signatory

Mark Mai
(Technical Director)

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#	Test Item(s)	Conclusion
Regulation (EC) No 1935/2004 and Council of Europe Resolution AP (2004) 5- For Silicone Material		
8	Overall migration	PASS
9	Bisphenol A Contents	PASS
10	Specific migration of Bisphenol A (BPA)	PASS
French Arrêté du 25 Novembre 1992 and French Décret 2007-766 with amendments - For Silicone Material		
11	Overall migration	PASS
12	Specific migration of Bisphenol A (BPA)	PASS
13	Bisphenol A Contents	PASS
14	Specific migration of Organotin (as Tin)	PASS
15	Peroxide Value	PASS
16	Volatile organic matter	PASS
Regulation (EC) No 1935/2004, the Council of Europe Directive 84/500/EEC and its amendment 2005/31/EC - For Glass Material		
17	Extractable Lead, Cadmium	PASS
Regulation (EC) No 1935/2004, German Food, Articles of Daily Use and Feed Code of September 1 , 2005(LFGB), Section30&31 with BfR Recommendations		
18	Specific Migration of Formaldehyde	PASS
19	Pentachlorophenol (PCP)	PASS

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Result:

1. Polycyclic-aromatic hydrocarbons (PAHs) content - Item 50 of Annex XVII of REACH Regulation (EC) 1907/2006 & amendment (EU) No 1272/2013
AfPS-GS-2019-01:PAK, determined by GC-MS

Test item(s)		Results		Limit (mg/kg)	MDL (mg/kg)
		Category I *1			
		1	3		
1	Benz[a]anthracene(BaA) CAS#56-55-3	N.D.	N.D.	1	0.2
2	Chrysene(CHR) CAS#218-01-9	N.D.	N.D.	1	0.2
3	Benz[b]fluoranthene(BbFA) CAS#205-99-2	N.D.	N.D.	1	0.2
4	Benz[k]fluoranthene(BkFA) CAS#207-08-9	N.D.	N.D.	1	0.2
5	Benz[j]fluoranthene(BjFA) CAS#205-82-3	N.D.	N.D.	1	0.2
6	Benzo[a]pyrene(BaP) CAS#50-32-8	N.D.	N.D.	1	0.2
7	Benzo[e]pyrene(BeP) CAS#192-97-2	N.D.	N.D.	1	0.2
8	Dibenz [a,h]anthracene (DBahA) CAS#53-70-3	N.D.	N.D.	1	0.2
-	Conclusion	PASS	PASS	-	-

Remark: (a) mg/kg: milligram per kilogram
(b) MDL: Method detected limit
(c) N.D.: Not detected (result is less than MDL)

1: Result category

Category I: Articles 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.

Category II : Toys, including activity toys, and childcare articles, 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.

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2. Cadmium content - Item 23 of Annex XVII of REACH Regulation (EC) 1907/2006 IEC 62321-5:2013, determined by AAS

Test item(s)		Result		Limit (mg/kg)	MDL (mg/kg)
		1	3		
1	Cadmium (Cd) CAS#7440-43-9	N.D.	N.D.	100	10
-	Conclusion	PASS	PASS	-	-

Remark(s): (a) mg/kg: milligram per kilogram
(b) MDL: Method detected limit
(c) N.D.: Not detected (result is less than MDL)

3. Phthalate content (DIBP、DEHP、DBP、BBP、DINP、DIDP、DNOP) - Item 51& 52 of Annex XVII of REACH Regulation (EC) 1907/2006 EN 14372:2004 & IEC 62321-8:2017, determined by GC-MS

Test item(s)			Result		Limit (%)	MDL (%)
			1	3		
1	DBP	Dibutyl Phthalate CAS# 84-74-2	N.D.	N.D.	0.1	0.005
2	BBP	Benzylbutyl Phthalate CAS# 85-68-7	N.D.	N.D.	0.1	0.005
3	DEHP	Bis-(2-ethylhexyl)Phthalate CAS# 117-81-7	N.D.	N.D.	0.1	0.005
4	DIBP	Diisobutyl phthalate CAS# 84-69-5	N.D.	N.D.	0.1	0.005
5	DNOP	Di-n-octyl phthalate CAS# 117-84-0	N.D.	N.D.	-	0.005
6	DINP	Di-iso-nonyl phthalate CAS# 28553-12-0	N.D.	N.D.	-	0.010
7	DIDP	Diisodecyl phthalate CAS# 26761-40-0	N.D.	N.D.	-	0.010
-	Sum of 1, 2, 3 & 4		N.D.	N.D.	0.1	-
-	Sum of 5, 6 & 7		N.D.	N.D.	0.1	-
-	Conclusion		PASS	PASS	-	-

Remark(s): (a) MDL: Method detected limit
(b) N.D.: Not detected (result is less than MDL)

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4. Total Lead content -Item 63 of Annex XVII of REACH Regulation (EC) 1907/2006 IEC 62321-5:2013, determined by AAS

Test item(s)		Result				Limit (mg/kg)	MDL (mg/kg)
		1	2	3	4		
1	Lead(Pb) CAS#7439-92-1	N.D.	N.D.	N.D.	N.D.	500	10
-	Conclusion	PASS	PASS	PASS	PASS	-	-

Remark(s): (a) mg/kg: milligram per kilogram
(b) MDL: Method detected limit
(c) N.D.: Not detected (result is less than MDL)

5. Dishwasher safe test (complied with the specification of dishwasher safe test according to PAS 54:2003) BS EN 12875-1:2005

After 10 cycles	Sample	5A	5B	5C
	Color ¹⁾	0	0	0
	Gloss	0	0	0
	Clouding	0	0	0
	Resistant deposits and iridescent layers ²⁾	0	0	0
	Other aspects	0	0	0

Remark(s): 1).If several colours are present on one article to be inspected, the colour with the greatest change shall be chosen.
2).For the elimination of easily removable deposits.
3).See photo bar for test photos

Note: Pictures are for reference only. Actual colours of the pictures may vary due to lighting and output process.
Evaluation of inspection criteria quoted from BS EN 12875-1:2005.

Classification	Rating
0	No visible change
1	First discernible change
2	Clearly visible change

Requirements quoted from Publicly Available Specification PAS 54: 2003

Articles that are designated “dishwasher resistant”, “dishwasher proof”, “dishwasher safe” or any other similar description that suggests that the articles can be safely cleaned in a dishwasher shall, either show no visible change compared with untreated tableware (Classification 0) or show very slightly visible change (Classification 1) but shall not show clearly visible change (Classification 2)

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6. Microwave safe test BS EN 15284:2007

2.1 Test Standard:

BS EN 15284: 2007 Materials and articles in contact with food stuffs -Test method for the resistance to microwave heating of ceramic, glass, glass-ceramic or plastics cookware

2.2 No. of Specimen:

Test sample description:	Glass
Number of Tested Sample(s):	3Pieces
Number of Controlled Sample(s):	1Pieces

2.3 Test Procedure:

With reference to BS EN 15284: 2007 test method.

2.4. Test Requirement:

2.4.1 Visually inspect the test specimen for damage according to the criteria in Table 1.

Table 1——inspection criteria

Material	Cracking	Crazing	Scaling	Color	Melting	Deformation	Suitability for re-use	Charring
Ceramic	+	^a	^b	^c				
Glass, glass-ceramic	+		^b	^c				
Plastics	+			^c	^d	+	^e	+

(+)=to be inspected

^a refers to the glaze

^b refers to on-glaze decoration

^c if several colors are present on one article to be inspected, the color with the greatest change shall be chosen

^d article shall not be too soft to handle

^e article shall be washable and stain resistant

NOTE 1 For the color criterion, an inspector and inspection site that meet the requirements of Clause 4 and 5.2 of EN 12875-2:2001 are required [2]

2.4.2 The maximum surface temperature of handles after the short period heating (6.6) shall not exceed the following limit values:

ceramic, glass-ceramic or glass: 56℃

plastics: 60℃

NOTE 1 These temperatures can be found by reference to a one minute contact time in EN ISO 13732-1 [1].

NOTE 2 As temperatures measured after the long period of heating vary significantly depending on the microwave oven used for testing, no temperature limit values apart from those for handles are given.

2.5. Test Result:

Pass

1) Visually inspect the test specimen: No visible change.

2) The highest surface temperature: 40℃ (after the short period)
52℃ (after the long period)

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7. Thermal Shock EN 1183:1997 method A

Number of test sample		10 pcs		
Teat sample material type		Glass		
Teat method		Test method B		
Temperature of sample (°C)	Temperature of water bath (°C)	Temperature difference (°C)	No. of failure	Cumulative failure in %
125	25	100	0	0
145	25	120	0	0
165	25	140	0	0
185	25	160	2	20
250	25	180	6	80
225	25	200	2	100
Thermal shock endurance $\Delta t_{50}(^{\circ}\text{C})$		170		
Standard deviation($^{\circ}\text{C}$)		17.0		

Regulation (EC) No 1935/2004 ,the Commission Regulation (EU) 2024/3190 and Council of Europe Resolution AP (2004) 5- For Silicone Material

8. Overall Migration EN 1186-1:2002 & EN 1186-3:2022

Test Item		Result	Limit (mg/dm ²)	MDL (mg/dm ²)
		3 ^{-3rd}		
1	3% Acetic acid, 70°C, 2h	N.D.	10	3
2	50% Ethanol, 70°C, 2h	N.D.	10	3
-	Conclusion	PASS	-	-

Remark(s): (a) mg/dm²: milligram square decimetre
(b) MDL: Method detected limit
(c) N.D.: Not detected (result is less than MDL)

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9. Bisphenol A Contents

In-house Method, determined by LC-MS/MS

Test Item		Result	Limit (mg/kg)	MDL (mg/kg)
		3		
1	Bisphenol A	N.D.	Prohibit	0.001
-	Conclusion	PASS	-	-

Remark(s): (a) mg/kg: milligram per kilogram
(b) MDL: Method detected limit
(c) N.D.: Not detected (result is less than MDL)

10. Specific migration of Bisphenol A

DD CEN/TS 13130-13:2005, determined by LC-MS/MS

Test Condition: 50% Ethanol, 70°C, 2h

Test Item		Result	Limit (mg/kg)	MDL (mg/kg)
		3-3rd		
1	Bisphenol A (BPA)	N.D.	Prohibit	0.01
-	Conclusion	PASS	-	-

Remark(s): (a) mg/kg: milligram per kilogram
(b) MDL: Method detected limit
(c) N.D.: Not detected (result is less than MDL)

French Arrêté du 25 Novembre 1992 and French Décret 2007-766 with amendments - For Silicone Material

11. Overall Migration for Silicone Materials in Contact with Foodstuffs

EN 1186-1:2002 & EN 1186-3:2022

Test Item(s)		Result	Limit (mg/dm ²)	MDL (mg/dm ²)
		3-3rd		
1	50%Ethanol, 70°C , 2h	N.D.	10	3
2	3%acetic acid , 70°C , 2h	N.D.	10	3
-	Conclusion	PASS	-	-

Remark(s): (a) mg/dm²: milligram square decimetre
(b) MDL: Method detected limit
(c) N.D.: Not detected (result is less than MDL)

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12. Specific migration of Bisphenol A DD CEN/TS 13130-13:2005, determined by LC-MS/MS

Test Condition: 50%Ethanol,70°C, 2h

Test Item(s)		Result	Limit (mg/kg)	MDL (mg/kg)
		3-3rd		
1	Bisphenol A (BPA)	N.D.	Prohibit	0.01
-	Conclusion	PASS	-	-

Remark(s): (a) mg/kg: milligram per kilogram
(b) MDL: Method detected limit
(c) N.D.: Not detected (result is less than MDL)

13. Bisphenol A (BPA) content In-house Method,determined by LC-MS/MS

Test Item(s)		Result	Limit (mg/kg)	MDL (mg/kg)
		3		
1	Bisphenol A	N.D.	Prohibit	0.001
-	Conclusion	PASS	-	-

Remark(s): (a) MDL: Method detected limit
(b) N.D.: Not detected (result is less than MDL)

14. Specific migration of Organotin(as Tin) EN 13130-1:2004, determined by ICP-OES

Test condition: 3% Acetic acid, 70°C, 2h

Test Item(s)		Result	Limit (mg/kg)	MDL (mg/kg)
		3-3rd		
1	Organotin(as Sn)	N.D.	0.1	0.01
-	Conclusion	PASS	-	-

Remark(s): (a) mg/kg: milligram per kilogram
(b) MDL: Method detected limit
(c) N.D.: Not detected (result is less than MDL)

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15. Peroxide Value

Europe pharmacopoeia,9.0 chapter 2.5.5.

Test Item(s)		Result	Requirement
		3	
1	Peroxide Value	Negative	Negative
-	Conclusion	PASS	-

16. Volatile organic matter

French Arrêté du Novembre 1992 Annex III.

Test condition: 200 °C, 4h

Test Item(s)		Result	Limit (%)	MDL (%)
		3		
1	Volatile Compounds	0.27	0.5	0.1
-	Conclusion	PASS	-	-

Remark(s): (a) MDL: Method detected limit

Regulation (EC) No 1935/2004, the Council of Europe Directive 84/500/EEC and its amendment 2005/31/EC - For Glass Material

17. Extractable Lead, Cadmium

84/500/EEC&2005/31/EC, determined by AAS

Test Condition: 4% Acetic acid, 22 °C, 24h

Test Item(s)		Result(s)	Limit (mg/L)	MDL (mg/L)
		4		
1	Lead (Pb)	N.D.	4	0.1
2	Cadmium (Cd)	N.D.	0.3	0.01
-	Conclusion	PASS	-	-

Remark(s): (a) mg/L: milligram per litre
(b) MDL: Method detected limit
(c) N.D.: Not detected (result is less than MDL)

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Regulation (EC) No 1935/2004, German Food, Articles of Daily Use and Feed Code of September 1 , 2005(LFGB), Section30&31 with BfR Recommendations.

18. Specific Migration of Formaldehyde EN 13130-1:2004 and CEN/TS 13130-23:2005 determined by UV-Vis

Test Condition: 3% Acetic acid,70 °C,2h

Test Item		Result			Client's Limit (mg/kg)	MDL (mg/kg)
		2				
		1 st	2 nd	3 rd		
1	Formaldehyde	0.3	0.2	0.1	15	0.1
	Conclusion	-	-	PASS	-	-

Remark(s): (a) mg/kg: milligram per kilogram
(b) MDL: Method detected limit
(c) N.D.: Not detected (result is less than MDL)

19. Pentachlorophenol (PCP) NF B51-297 2004 and determined by GC-MS

Test Item		Result	Client's Limit (mg/kg)	MDL (mg/kg)
		2		
1	Pentachlorophenol CAS# 87-86-5	N.D.	0.1	0.01
	Conclusion	PASS	-	-

Remark(s): (a) mg/kg: milligram per kilogram
(b) MDL: Method detected limit
(c) N.D.: Not detected (result is less than MDL)

Material List:

Material #	Sample Description / Position	Client's Material Statement
1	Transparent coating,lid	-
2	Brown bamboo,lid	Bamboo
3	Transparent silicone,seal ring	Silicone

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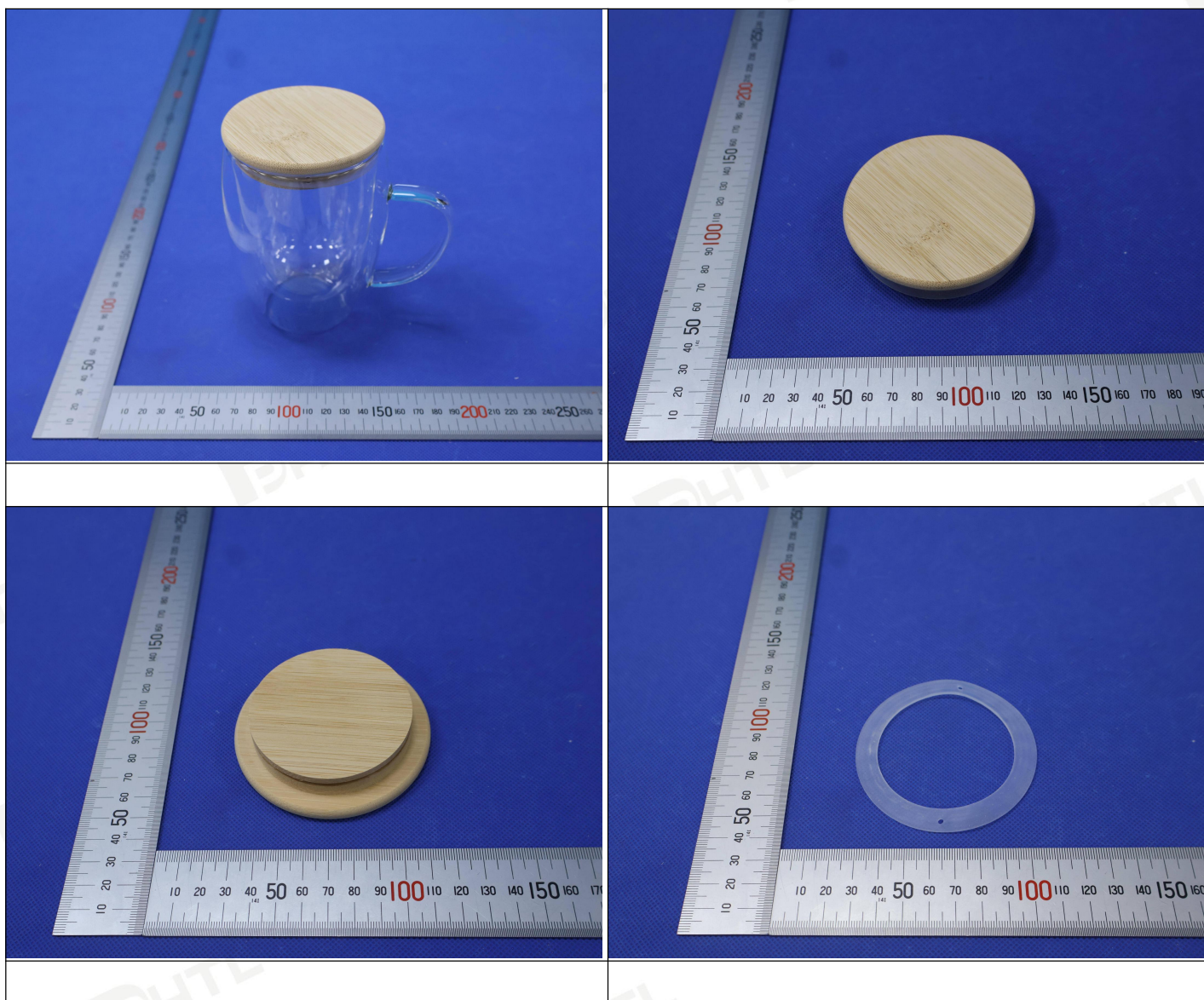
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4	Transparent glass,cup (big)	Glass
5	Article	-

Photo(s):



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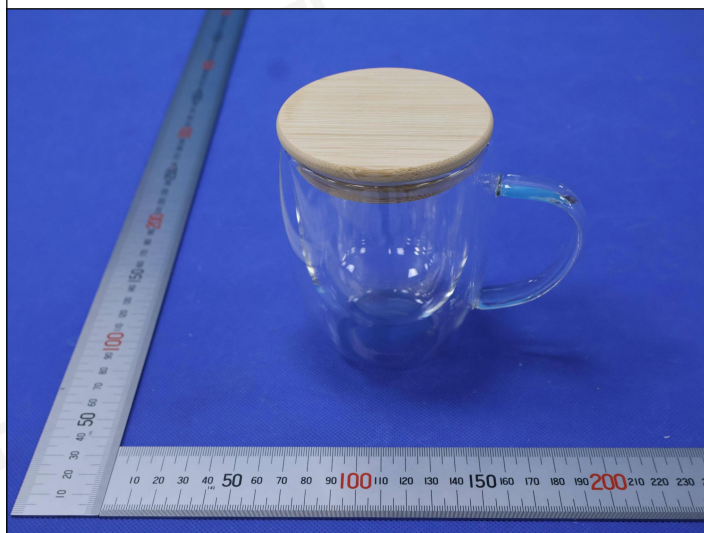
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Test Sample Photo



Product Photo,for reference only

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