



Test Report

Report No : BTST20250200023EN

Date: Feb.12, 2025

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Applicant: Guangzhou Linsen Industrial Co., Ltd.
Address: 13-001, Changtang Road, Zhongbei Area, Shegang Village, Tanbu Town, Huadu Dist.
Manufacturer: Guangzhou Linsen Industrial Co., Ltd.
Address: 13-001, Changtang Road, Zhongbei Area, Shegang Village, Tanbu Town, Huadu Dist.

The following sample(s) was /were submitted and identified on behalf of the clients as :

Sample Name: Memory Foam Pillow
Main Model: LS-1227/LS-1276
Additional Models : Please refer to next page(s).
Sample Received Date : Feb.10, 2025
Testing Period: Feb.10, 2025 To Feb.12, 2025
Test Requested:
1. As specified by client ,to screen Lead(Pb),Cadmium(Cd),Mercury(Hg), Chromium(Cr)and Bromine(Br)in the submitted sample(s)by XRF.
2. As specified by client ,when screening results exceed the XRF screening limit in IEC62321:2013 Edition 1.0,further use of wet chemical methods are required to test Lead(Pb),Cadmium(Cd),Mercury(Hg),Hexavalent Chromium(Cr(VI)),Polybrominated Biphenyls(PBBs),Polybrominated Diphenyl Ethers(PBDEs),Polybrominated diphenyl ethers (PBDEs) and Phthalates such as Bis(2-ethylhexyl) phthalate (DEHP) , Butyl benzyl phthalate (BBP), Dibutylphthalate (DBP) , and Diisobutyl phthalate (DIBP) in the submitted sample(s).
Test Method: Please refer to next page(s).
Test Result: Please refer to next page(s).
Test Conclusion: The test results comply with the limits of RoHS 2.0 Directive (EU) 2015/863 and (EU)2017/2102 amending Annex II to Directive 2011/65/EU.



Scan QR code
verification of authenticity

Security Code : 49CJ6Q0UL

Signed for and on behalf of

Aylin Zheng
Technical Director

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Additional Models:

LS-180H/LS-310/LS-131/LS-183C/LS-109A/LS-388/LS-502/LS-510/LS-721/LS-800/LS-654/LS-822/LS-838/LS-949/LS-108B/LS-541/LS-612/LS-180H/LS-185C/LS-619/LS-304.
LS-303/LS-975/LS-120/LS-540/LS-169/LS-184/LS-129B/LS-148/LS-613/LS-652/LS-751/LS-811/LS-857/LS-111/LS-129A/LS-129H/LS-130/LS-132/LS-155/LS-655/LS-948.
LS-685/LS-653/LS-729/LS-107I/LS-107B/LS-107E/LS-708/LS-307B.
LS-201/LS-201A/LS-202/LS-203/LS-9013/LS-9025/LS-207/LS-206/LS-9012/LS-208A/LS-207/LS-1227/LS-1276/LS-1226/LS-1141/LS-908/LS-9017 /LS-672/LS-232.
LS-196/LS-179/LS-830/LS-190/LS-741/LS-704/LS-190-G.
LS-791/LS-825/LS-W208/LS-128/LS-208B/LS-771/LS-821/LS-208/LS-771.
LS-204/LS-224/LS-222/LS-232B/LS-204B/LS-223/LS-217/LS-7003/LS-7005.

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1.Pb, Cd, Cr(VI), Hg, PBBs&PBDEs

Test Method:

A.Disassembly, disjointment and mechanical sample preparation

—Ref. to IEC 62321-2:2021, Disassembly, disjointment and mechanical sample preparation.

B.With reference to IEC 62321-1:2013, tests were performed for the samples indicated by the photos in this report.

(1)Screening – Lead, mercury, cadmium, total chromium and total bromine

—Ref. to IEC 62321-3-1:2013, Screening for Lead, mercury, cadmium, total chromium and total bromine by X-ray fluorescence spectrometry.

(2)Wet chemical test method

Test Item(s)	Test Method	Test Equipment	Unit	MDL	Limit
Pb	IEC62321-5:2013	ICP-OES	mg/kg	10	1000
Cd	IEC62321-5:2013	ICP-OES	mg/kg	10	100
Hg	IEC 62321-4:2013/AMD1:2017	ICP-OES	mg/kg	10	1000
Cr(VI) (Metal)	IEC62321-7-1:2015	UV-Vis	µg/cm2	0.1	0.13
Cr(VI) (Nonmetal)	IEC62321-7-2:2017	UV-Vis	mg/kg	10	1000
PBBs	IEC62321-6:2015	GC-MS	mg/kg	10	1000
PBDEs	IEC62321-6:2015	GC-MS	mg/kg	10	1000

PBBs		PBDEs	
Monobromobiphenyl	Hexabromobiphenyl	Monobromodiphenyl ether	Hexabromodiphenyl ether
Dibromobiphenyl	Heptabromobiphenyl	Dibromodiphenyl ether	Heptabromodiphenyl ether
Tribromobiphenyl	Octabromobiphenyl	Tribromodiphenyl ether	Octabromodiphenyl ether
Tetrabromobiphenyl	Nonabromobiphenyl	Tetrabromodiphenyl ether	Nonabromodiphenyl ether
Pentabromobiphenyl	Decabromobiphenyl	Pentabromodiphenyl ether	Decabromodiphenyl ether

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Test result(s):

No.	Sample Description	Results of XRF					Chemical confirmation results (mg/kg)	Conclusion
		Pb	Cd	Hg	Cr	Br		
1.	Light Blue fabric	BL	BL	BL	BL	BL	---	Pass
2.	Blue fabric	BL	BL	BL	BL	BL	---	Pass
3.	White fabric	BL	BL	BL	BL	BL	---	Pass
4.	Light Grey fabric	BL	BL	BL	BL	BL	---	Pass
5.	Grey fabric	BL	BL	BL	BL	BL	---	Pass
6.	White froth	BL	BL	BL	BL	BL	---	Pass
7.	White plastic (button)	BL	BL	BL	BL	BL	---	Pass
8.	White metal (Zipper head)	BL	BL	BL	BL	---	---	Pass

Remark:

- It is the result on total Br while test item on restricted substances is PBBs/PBDEs. It is the result on total Cr while test item on restricted substances is Cr(VI).
- The XRF screening test for RoHS elements-The reading may be different to the actual content in the sample be of non-uniformity composition.
- Results are obtained by EDXRF for primary screening, and further chemical testing by ICP-OES (for Pb, Cd, Hg), UV-VIS for Cr(VI) and GC/MSD (for PBBs/PBDEs) is recommended to be performed if the concentration exceeds the below warning value according to IEC 62321-3-1:2013.

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XRF Screening limits for different matrices :

Materials	Concentration (mg/kg)				
	Cd	Cr	Pb	Hg	Br
Polymeric	BL≤60<X<140≤OL	BL≤640<X	BL≤670<X<1330≤OL	BL≤660<X<1340≤OL	BL≤290<X
Metallic	BL≤60<X<140≤OL	BL≤640<X	BL≤670<X<1330≤OL	BL≤660<X<1340≤OL	---
Composite materials	BL≤40<X<160≤OL	BL≤440<X	BL≤470<X<1530≤OL	BL≤460<X<1540≤OL	BL≤240<X

Note:

-BL= Below Limit

-OL=Over Limit

-X = inconclusive, the region where need further chemical testing by ICP-OES (for Pb, Cd, Hg), UV-Vis (for Cr(VI)) and GC-MS (for PBBs, PBDEs).

- --- = Not Applicable

- mg/kg=0.0001%

- N.D.=Not Detected(<MDL)

- MDL= Method Detection Limit

-Negative = Absence of Cr(VI), the detected Cr(VI) concentration in the boiling water extraction solution is less than 0.02 mg/kg with 50cm² sample surface area used.

-*=According to 2011/65/EU Annex,point *Lead as an alloying element is steel containing up to 0.35% lead by weight, aluminum containing up to 0.4% lead by weight and as a copper alloy, containing up to 4% lead by weight can be exempted.

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2. Phthalates—DBP, BBP, DEHP & DIBP

Test Item(s)	Test Method	Test Equipment	Unit	MDL	Limit
Dibutyl Phthalate(DBP)	IEC62321-8:2017	GC-MS	mg/kg	30	1000
Benzylbutyl Phthalate (BBP)	IEC62321-8:2017	GC-MS	mg/kg	30	1000
Di-(2-ethylhexyl)Phthalate (DEHP)	IEC62321-8:2017	GC-MS	mg/kg	30	1000
Diisobutyl phthalate(DIBP)	IEC62321-8:2017	GC-MS	mg/kg	30	1000

Test result(s):

Part No.	Test Item (mg/kg)				Conclusion
	DBP	BBP	DEHP	DIBP	
1+2+3 (Mix)	N.D.	N.D.	N.D.	N.D.	Pass
4+5+6 (Mix)	N.D.	N.D.	N.D.	N.D.	Pass
7	N.D.	N.D.	N.D.	N.D.	Pass

Note: - mg/kg=0.0001%
-N.D.=Not Detected(<MDL)

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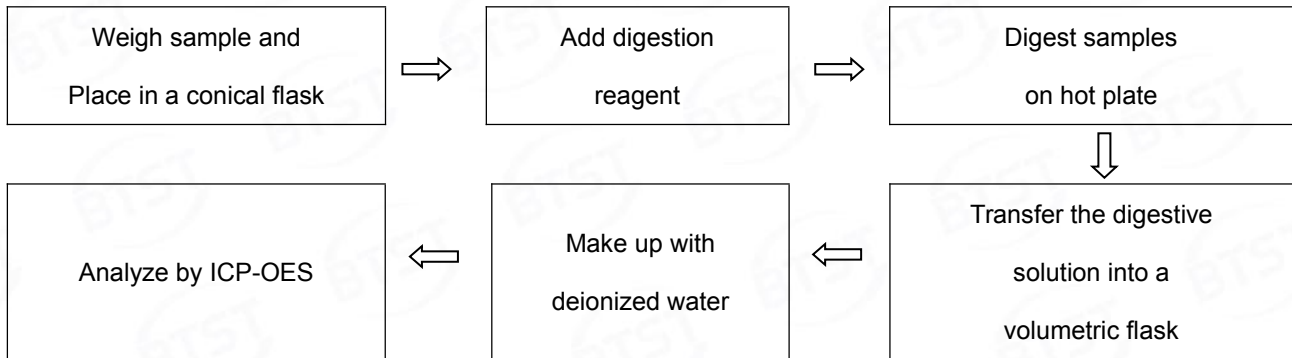
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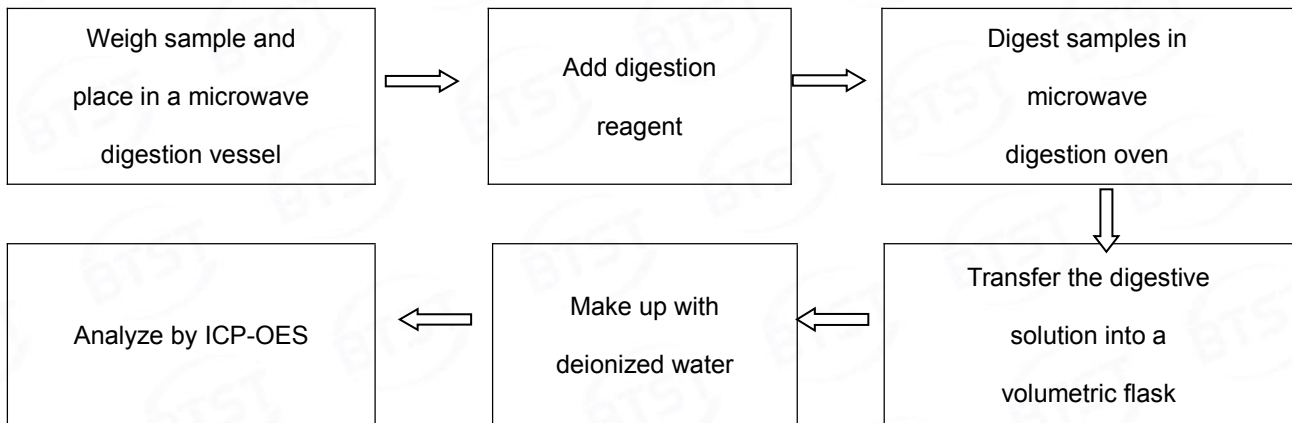
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Chemical Test Process:

1. Test for Cd/Pb Content



2. Test for Hg Content



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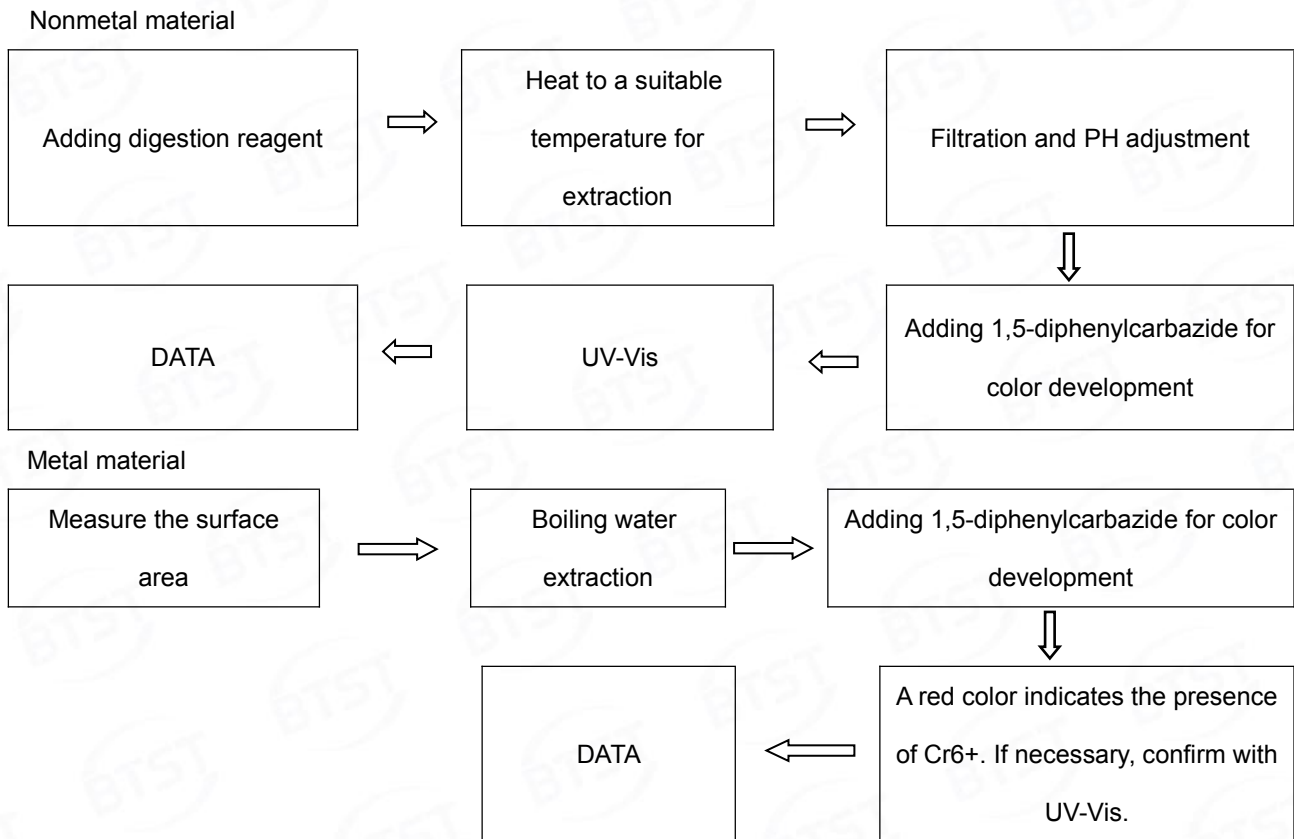
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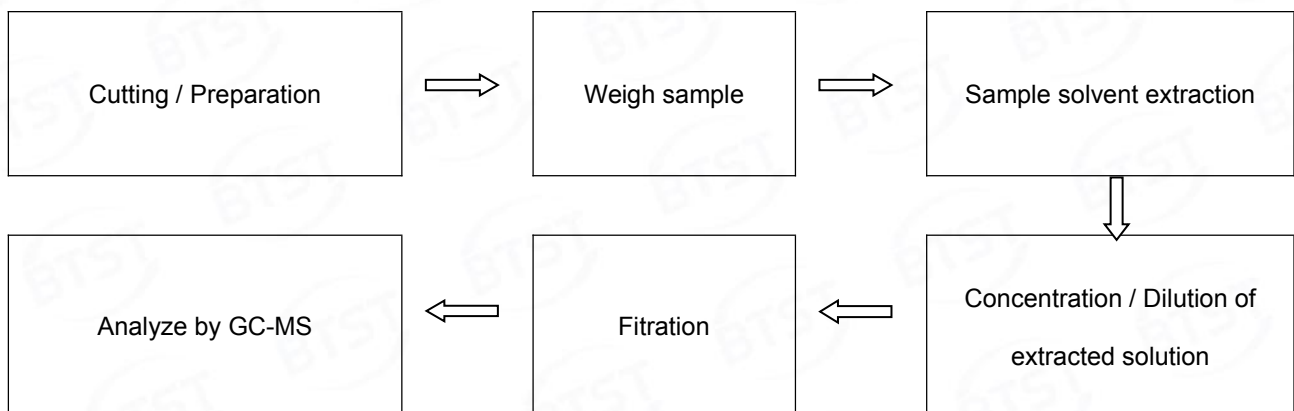
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3. Test for Chromium (VI) Content

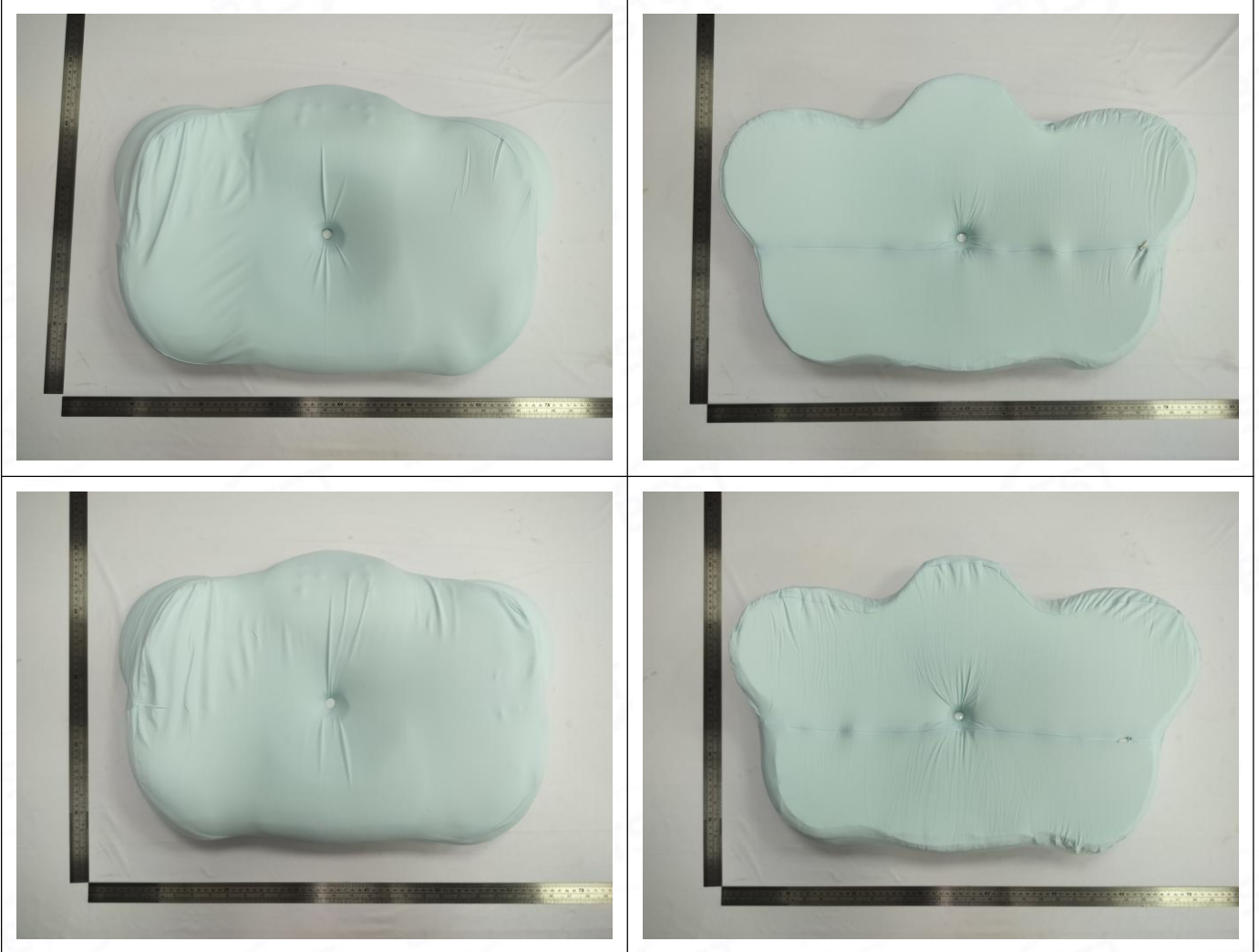


4. Test for DBP, BBP, DEHP, DIBP, PBB, PBDE Content



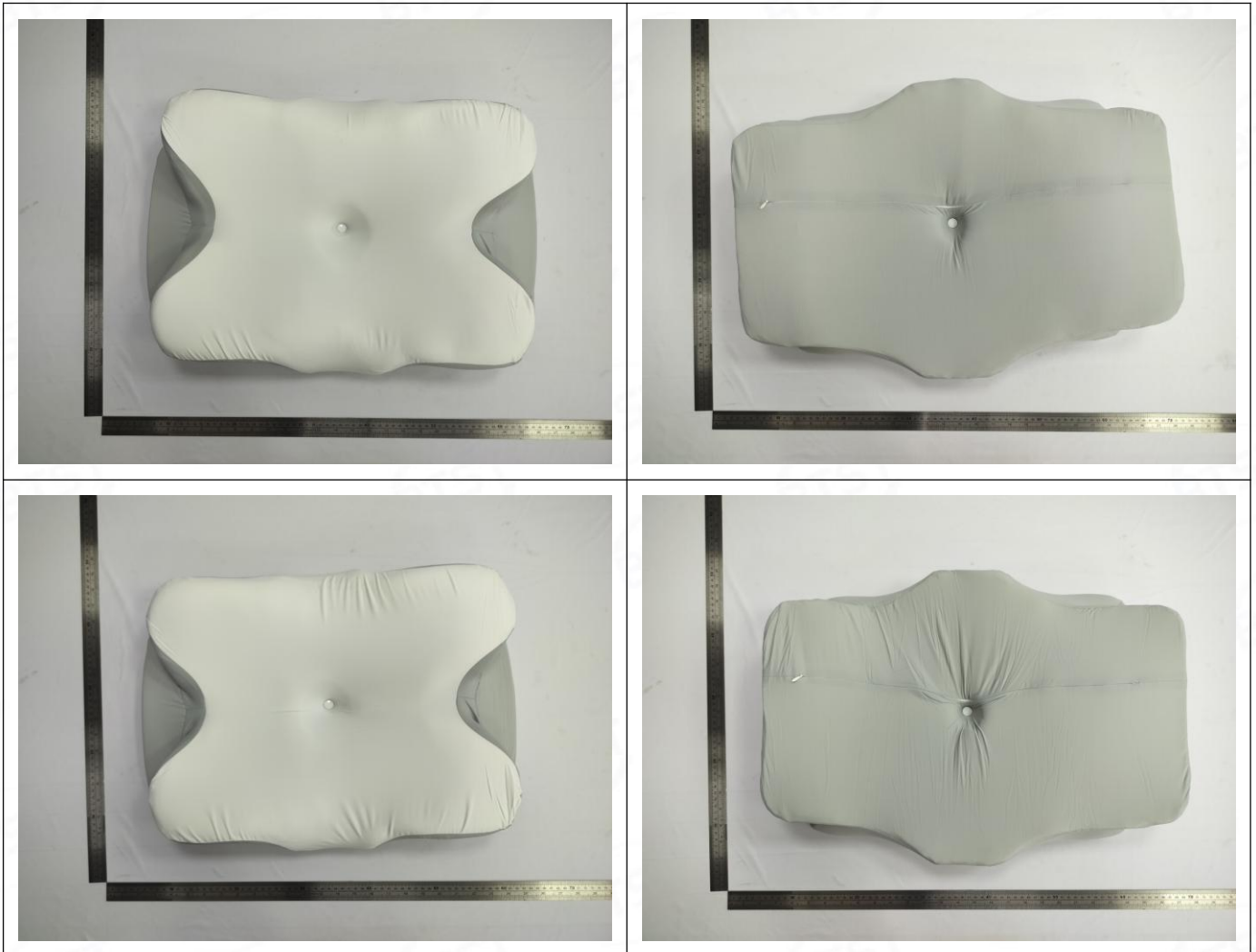
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Sample pictures:

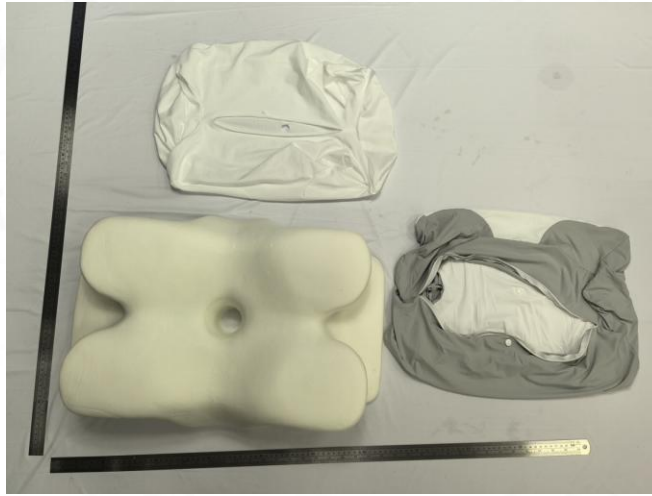
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