

Mizuguchi Chemical Co.,Ltd
12-1 Yanagida Himi, Toyama 935-0031, Japan

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

Sample Name : Polyethylene film

SGS Order No. : 10621203
Sample ID : SGA26-0000045-0001
Sample Receiving Date : 21-Jan-2026
Testing Period : 21-Jan-2026 to 28-Jan-2026

Test Requested : Selected test(s) as requested by the client
Test Method(s) : Please refer to next page(s)
Test Result(s) : Please refer to next page(s)

Conclusion : Based on the performed tests on submitted sample(s), the results of Cadmium, Lead, Mercury, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs) and Phthalates such as Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP) **comply** with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

Signed for and on behalf of
SGS Testing & Control Services Singapore Pte Ltd



Tan Si Jing (Ms.)
Senior Chemist, Multi-Lab

FOLDER NUMBER : SGA26-0000045

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Test Result(s) :

Sample Description : WHITE SHEET

Test Item(s)	Unit	Method	Results	MDL	Limit
Lead (Pb)	mg/kg	With reference to IEC 62321-5:2013. Analysis was performed by ICP/OES	ND	2	<1000
Mercury (Hg)	mg/kg	With reference to IEC 62321-4 :2013 +AMD1:2017. Analysis was performed by ICP/OES	ND	2	<1000
Cadmium(Cd)	mg/kg	With reference to IEC 62321-5:2013. Analysis was performed by ICP/OES	ND	2	<100
Hexavalent Chromium (Cr(VI))	mg/kg	With reference to IEC 62321-7-2:2017. Analysis was performed by UV-Vis Spectrometry.	ND	8	<1000
Polybromobiphenyl (PBBs)	mg/kg	With reference to IEC 62321-6:2015. Analysis was performed by GC/MS.	ND	-	<1000
Monobromobiphenyl (MonoBB)	mg/kg	With reference to IEC 62321-6:2015. Analysis was performed by GC/MS.	ND	5	-
Dibromobiphenyl (DiBB)	mg/kg	With reference to IEC 62321-6:2015. Analysis was performed by GC/MS.	ND	5	-
Tribromobiphenyl (TriBB)	mg/kg	With reference to IEC 62321-6:2015. Analysis was performed by GC/MS.	ND	5	-
Tetrabromobiphenyl (TetraBB)	mg/kg	With reference to IEC 62321-6:2015. Analysis was performed by GC/MS.	ND	5	-
Pentabromobiphenyl (PentaBB)	mg/kg	With reference to IEC 62321-6:2015. Analysis was performed by GC/MS.	ND	5	-
Hexabromobiphenyl (HexaBB)	mg/kg	With reference to IEC 62321-6:2015. Analysis was performed by GC/MS.	ND	5	-
Heptabromobiphenyl (HeptaBB)	mg/kg	With reference to IEC 62321-6:2015. Analysis was performed by GC/MS.	ND	5	-
Octabromobiphenyl (OctaBB)	mg/kg	With reference to IEC 62321-6:2015. Analysis was performed by GC/MS.	ND	5	-
Nonabromobiphenyl (NonaBB)	mg/kg	With reference to IEC 62321-6:2015. Analysis was performed by GC/MS.	ND	5	-
Decabromobiphenyl (DecaBB)	mg/kg	With reference to IEC 62321-6:2015. Analysis was performed by GC/MS.	ND	5	-

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Test Item(s)	Unit	Method	Results	MDL	Limit
Polybromodiphenyl ether(PBDEs)	mg/kg	With reference to IEC 62321-6:2015. Analysis was performed by GC/MS.	ND	-	<1000
Monobromodiphenylether (MonoBDE)	mg/kg	With reference to IEC 62321-6:2015. Analysis was performed by GC/MS.	ND	5	-
Dibromodiphenylether (DiBDE)	mg/kg	With reference to IEC 62321-6:2015. Analysis was performed by GC/MS.	ND	5	-
Tribromodiphenylether (TriBDE)	mg/kg	With reference to IEC 62321-6:2015. Analysis was performed by GC/MS.	ND	5	-
Tetrabromodiphenylether (TetraBDE)	mg/kg	With reference to IEC 62321-6:2015. Analysis was performed by GC/MS.	ND	5	-
Pentabromodiphenylether (PentaBDE)	mg/kg	With reference to IEC 62321-6:2015. Analysis was performed by GC/MS.	ND	5	-
Hexabromodiphenylether (HexaBDE)	mg/kg	With reference to IEC 62321-6:2015. Analysis was performed by GC/MS.	ND	5	-
Heptabromodiphenylether (HeptaBDE)	mg/kg	With reference to IEC 62321-6:2015. Analysis was performed by GC/MS.	ND	5	-
Octabromodiphenylether (OctaBDE)	mg/kg	With reference to IEC 62321-6:2015. Analysis was performed by GC/MS.	ND	5	-
Nonabromodiphenylether (NonaBDE)	mg/kg	With reference to IEC 62321-6:2015. Analysis was performed by GC/MS.	ND	5	-
Decabromodiphenylether (DecaBDE)	mg/kg	With reference to IEC 62321-6:2015. Analysis was performed by GC/MS.	ND	5	-
Bis-(2-ethylhexyl) Phthalate(DEHP)	mg/kg	With reference to IEC 62321-8:2017. Analysis was performed by GC/MS.	ND	50	<1000
Benzyl Butyl Phthalate(BBP)	mg/kg	With reference to IEC 62321-8:2017. Analysis was performed by GC/MS.	ND	50	<1000
Dibutyl Phthalate(DBP)	mg/kg	With reference to IEC 62321-8:2017. Analysis was performed by GC/MS.	ND	50	<1000
Diisobutyl Phthalate(DIBP)	mg/kg	With reference to IEC 62321-8:2017. Analysis was performed by GC/MS.	ND	50	<1000

FOLDER NUMBER : SGA26-0000045

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Test Report

No: SGACP260000164

Date: 28-Jan-2026

Page 4 of 8

Remarks:

- (1) mg/kg = ppm ; 0.1wt% = 1000ppm
- (2) ND = Not Detected (Less than MDL)
- (3) MDL = Method Detection Limit
- (4) "-" = Not regulated

Notes:

- (1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.
- (2) IEC 62321 series is equivalent to EN 62321 series.
- (3) The restriction of DEHP, BBP, DBP and DIBP shall apply to medical devices, including in vitro medical devices, and monitoring and control instruments, including industrial monitoring and control instruments, from 22 July 2021.

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. According to this rule, the judgement of conformity is based on the comparing test results with limits.

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Sample Photo:



SGA26-0000045-0001

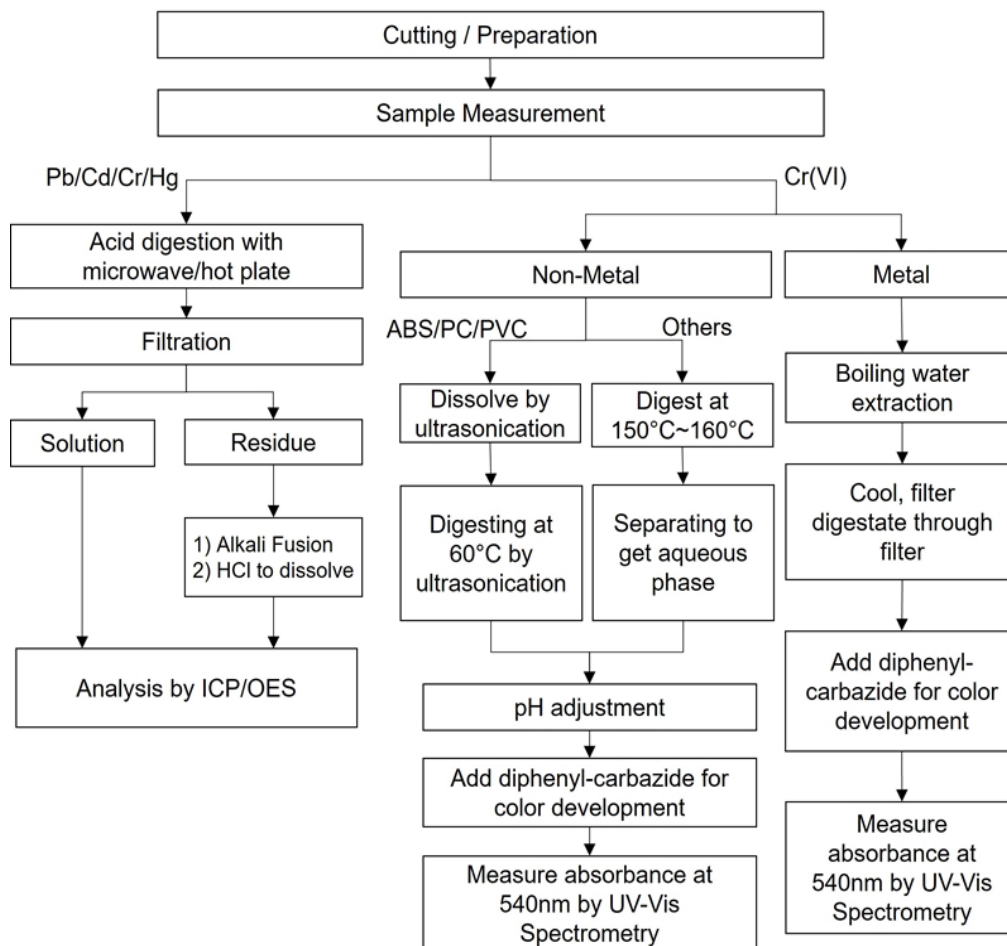
SGS authenticate the photo on original report only

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Analytical flow chart - Heavy metals

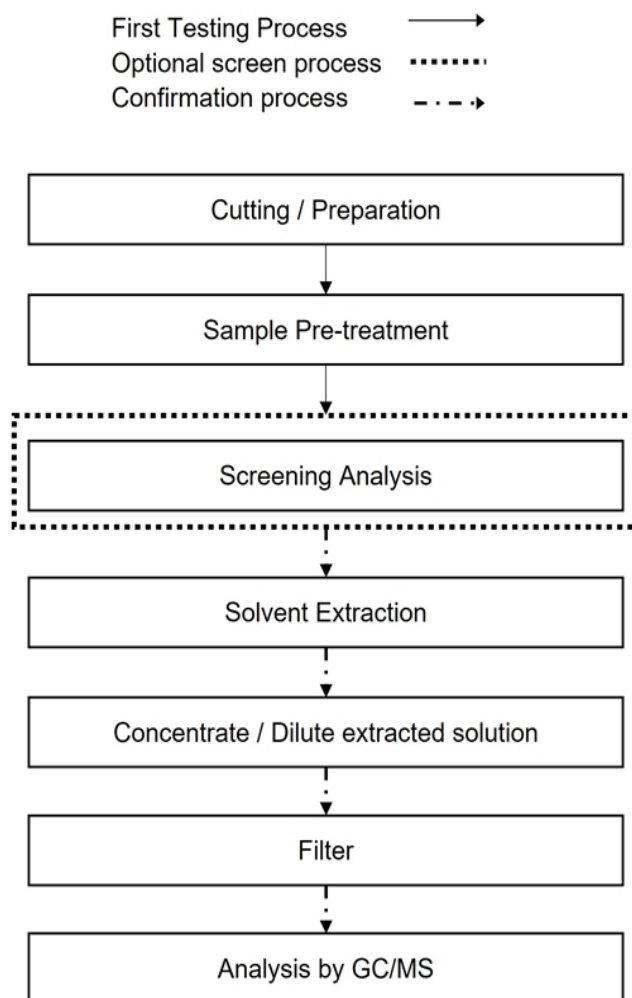
Sample received was totally dissolved by preconditioning method.
[Cr(VI) test method excluded]



FOLDER NUMBER : SGA26-0000045

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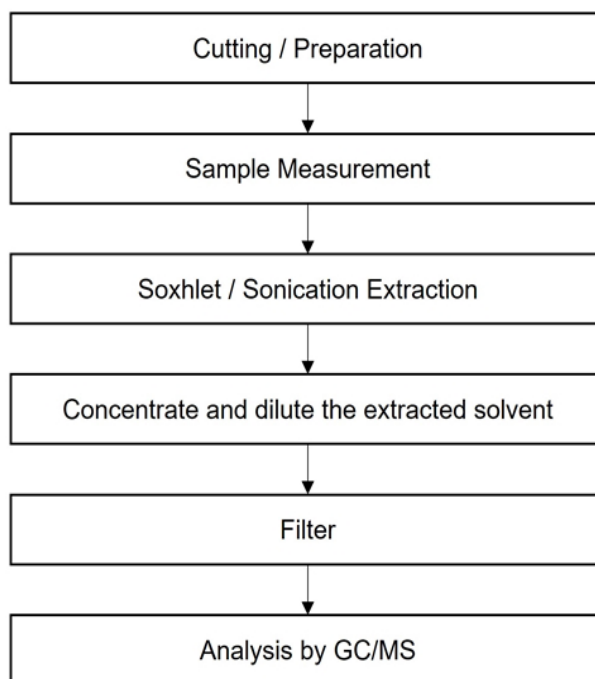
Analytical flow chart - PBBs and PBDEs



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Analytical flow chart – Phthalates (IEC 62321)



End of Report

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