

No.: ETR21102521

Date: 18-Jan-2021

Page: 1 of 9

KESTER LLC 800 W. THORNDALE AVE. ITASCA, IL 60143

The following sample Sample Submitted By Sample Name		were submitted and identified by/on behalf of the applicant as: KESTER LLC TSF-6522RH
Sample Receiving Da Testing Period		11-Jan-2021 11-Jan-2021 to 18-Jan-2021
Test Requested	·	 As specified by client, with reference to RoHS 2011/65/EU Annex II and amending Directive (EU) 2015/863 to determine Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP contents in the submitted sample(s). Please refer to next pages for the other item(s).
Test Results Conclusion	:	 Please refer to following pages. Based on the performed tests on submitted sample(s), the test results of Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.





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SGS Taiwan Ltd. 台灣檢驗科技股份有限公司



No.: ETR21102521

Date: 18-Jan-2021

Page: 2 of 9

KESTER LLC 800 W. THORNDALE AVE. ITASCA, IL 60143

Test Part Description

No.1 : YELLOW PASTE

Test Result(s)

Test Item(s)	Method	Unit	MDL	Result	Limit
				No.1	
Cadmium (Cd) (CAS No.: 7440-43-9)	With reference to IEC 62321-5: 2013, analysis was performed by ICP-OES.	mg/kg	2	n.d.	100
Lead (Pb) (CAS No.: 7439-92-1)	With reference to IEC 62321-5: 2013, analysis was performed by ICP-OES.	mg/kg	2	n.d.	1000
Mercury (Hg) (CAS No.: 7439-97-6)	With reference to IEC 62321-4: 2013+ AMD1: 2017, analysis was performed by ICP-OES.	mg/kg	2	n.d.	1000
Hexavalent Chromium Cr(VI) (CAS No.: 18540-29-9)	With reference to IEC 62321-7-2: 2017, analysis was performed by UV- VIS.	mg/kg	8	n.d.	1000
Monobromobiphenyl		mg/kg	5	n.d.	-
Dibromobiphenyl		mg/kg	5	n.d.	-
Tribromobiphenyl		mg/kg	5	n.d.	-
Tetrabromobiphenyl		mg/kg	5	n.d.	-
Pentabromobiphenyl		mg/kg	5	n.d.	-
Hexabromobiphenyl		mg/kg	5	n.d.	-
Heptabromobiphenyl		mg/kg	5	n.d.	-
Octabromobiphenyl	1	mg/kg	5	n.d.	-
Nonabromobiphenyl		mg/kg	5	n.d.	-
Decabromobiphenyl		mg/kg	5	n.d.	-
Sum of PBBs	With reference to IEC 62321-6: 2015,	mg/kg	-	n.d.	1000
Monobromodiphenyl ether	analysis was performed by GC/MS.	mg/kg	5	n.d.	-
Dibromodiphenyl ether		mg/kg	5	n.d.	-
Tribromodiphenyl ether		mg/kg	5	n.d.	-
Tetrabromodiphenyl ether	1	mg/kg	5	n.d.	-
Pentabromodiphenyl ether		mg/kg	5	n.d.	-
Hexabromodiphenyl ether	1	mg/kg	5	n.d.	-
Heptabromodiphenyl ether]	mg/kg	5	n.d.	-
Octabromodiphenyl ether]	mg/kg	5	n.d.	-
Nonabromodiphenyl ether]	mg/kg	5	n.d.	-
Decabromodiphenyl ether]	mg/kg	5	n.d.	-
Sum of PBDEs		mg/kg	-	n.d.	1000

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No.: ETR21102521

Date: 18-Jan-2021

Page: 3 of 9

KESTER LLC

800 W. THORNDALE AVE. ITASCA, IL 60143

Test Item(s)	Method	Unit	MDL	Result L	Limit
				No.1	
Butyl benzyl phthalate (BBP) (CAS No.:	With reference to IEC 62321-8: 2017,	mg/kg	50	n.d.	1000
85-68-7)	analysis was performed by GC/MS.				
Dibutyl phthalate (DBP) (CAS No.: 84-	With reference to IEC 62321-8: 2017,	mg/kg	50	n.d.	1000
74-2)	analysis was performed by GC/MS.				
Di-(2-ethylhexyl) phthalate (DEHP)	With reference to IEC 62321-8: 2017,	mg/kg	50	n.d.	1000
(CAS No.: 117-81-7)	analysis was performed by GC/MS.				
Diisobutyl phthalate (DIBP) (CAS No.:	With reference to IEC 62321-8: 2017,	mg/kg	50	n.d.	1000
84-69-5)	analysis was performed by GC/MS.				
Diisodecyl phthalate (DIDP) (CAS No.:	With reference to IEC 62321-8: 2017,	mg/kg	50	n.d.	-
26761-40-0, 68515-49-1)	analysis was performed by GC/MS.				
Diisononyl phthalate (DINP) (CAS No.:	With reference to IEC 62321-8: 2017,	mg/kg	50	n.d.	-
28553-12-0, 68515-48-0)	analysis was performed by GC/MS.				
Di-n-octyl phthalate (DNOP) (CAS No.:	With reference to IEC 62321-8: 2017,	mg/kg	50	n.d.	-
117-84-0)	analysis was performed by GC/MS.				
Fluorine (F) (CAS No.: 14762-94-8)	With reference to BS EN 14582: 2016,	mg/kg	50	n.d.	-
	analysis was performed by IC.				
Chlorine (Cl) (CAS No.: 22537-15-1)	With reference to BS EN 14582: 2016,	mg/kg	50	n.d.	-
	analysis was performed by IC.				
Bromine (Br) (CAS No.: 10097-32-2)	With reference to BS EN 14582: 2016,	mg/kg	50	527	-
	analysis was performed by IC.				
lodine (I) (CAS No.: 14362-44-8)	With reference to BS EN 14582: 2016,	mg/kg	50	n.d.	-
	analysis was performed by IC.				
Antimony (Sb) (CAS No.: 7440-36-0)	With reference to US EPA 3052: 1996,	mg/kg	2	n.d.	-
	analysis was performed by ICP-OES.				
Cobalt (Co) (CAS No.: 7440-48-4)	With reference to US EPA 3052: 1996,	mg/kg	2	n.d.	-
	analysis was performed by ICP-OES.				

Note :

- 1. mg/kg = ppm ; 0.1wt% = 1000ppm
- 2. MDL = Method Detection Limit
- 3. n.d. = Not Detected (Less than MDL)
- 4. "-" = Not Regulated
- 5. The statement of compliance conformity is based on comparison of testing results and limits.

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No.: ETR21102521

Date: 18-Jan-2021

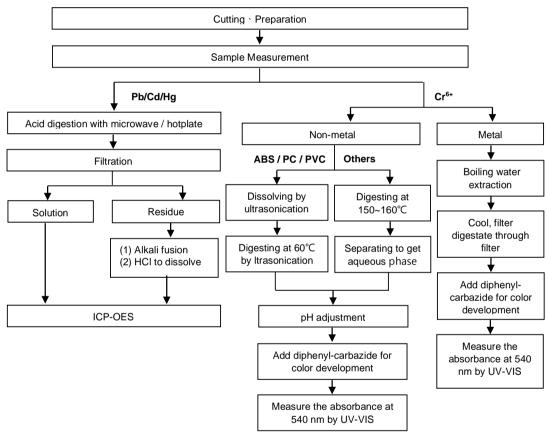
Page: 4 of 9

KESTER LLC 800 W. THORNDALE AVE. ITASCA, IL 60143

Analytical flow chart of Heavy Metal

These samples were dissolved totally by pre-conditioning method according to below flow chart.

(Cr⁶⁺ test method excluded)



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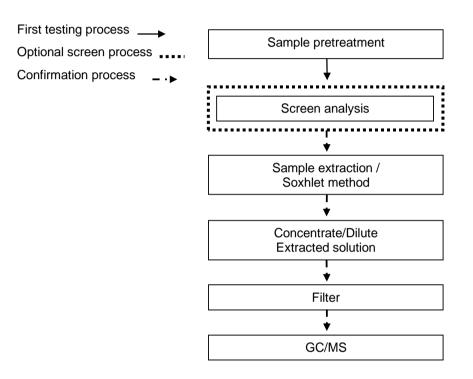


No.: ETR21102521

Date: 18-Jan-2021

Page: 5 of 9

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Analytical flow chart - PBBs / PBDEs

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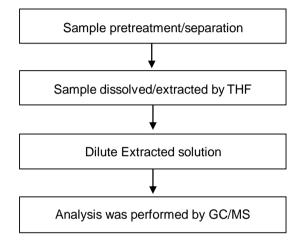
Date: 18-Jan-2021

Page: 6 of 9

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Analytical flow chart - Phthalate

[Test method: IEC 62321-8]



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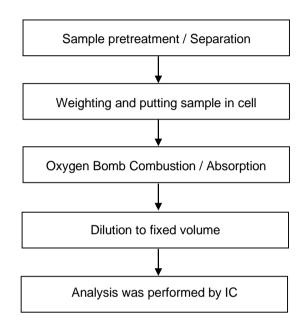


Test ReportNo.: ETR21102521

Date: 18-Jan-2021

Page: 7 of 9

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Analytical flow chart - Halogen

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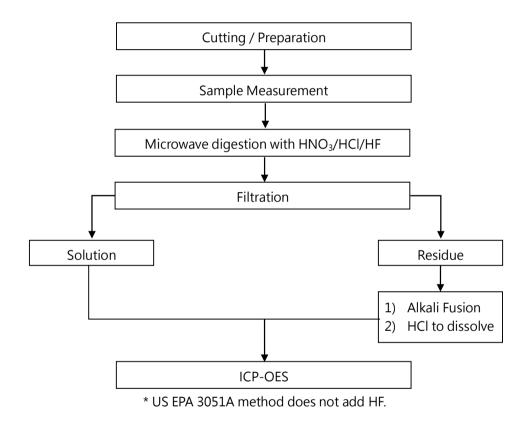
Page: 8 of 9

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Analytical flow chart of Heavy Metal

These samples were dissolved totally by pre-conditioning method according to below flow chart.

【Reference method: US EPA 3051A、US EPA 3052】



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No.: ETR21102521

Date: 18-Jan-2021

Page: 9 of 9

KESTER LLC 800 W. THORNDALE AVE. ITASCA, IL 60143

* The tested sample / part is marked by an arrow if it's shown on the photo. *

ETR21102521

** End of Report **

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