

Test Report

No. : KE/2015/C2287

Date : 2015/12/28

Page : 1 of 7

FORMOSA PLASTICS CORPORATION
8F, NO. 201, TUN HUA N. RD., TAIPEI, TAIWAN

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

Sample Description : FORMOCON
Style/Item No. : FM270
Material Component : POLYOXYMETHYLENE(POM)
Color : WHITE
Sample Receiving Date : 2015/12/23
Testing Period : 2015/12/23 TO 2015/12/28
Sample Submitted By : FORMOSA PLASTICS CORPORATION

=====

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.

Test Result(s) : Please refer to next page(s).



Ray Chang, Ph.D. / Manager-Tel
Signed for and on behalf of
SGS Taiwan Limited
Chemical Laboratory-Kaohsiung

Test Report

No. : KE/2015/C2287

Date : 2015/12/28

Page : 2 of 7

FORMOSA PLASTICS CORPORATION
8F, NO. 201, TUN HUA N. RD., TAIPEI, TAIWAN

Test Result(s)

PART NAME No.1 : WHITE POM

Test Item(s)	Unit	Method	MDL	Result	
				No.1	
Cadmium (Cd)	mg/kg	With reference to IEC 62321-5: 2013 and performed by ICP-AES.	2	n.d.	
Mercury (Hg)	mg/kg	With reference to IEC 62321-4: 2013 and performed by ICP-AES.	2	n.d.	
Lead (Pb)	mg/kg	With reference to IEC 62321-5: 2013 and performed by ICP-AES.	2	n.d.	
Hexavalent Chromium Cr(VI)	mg/kg	With reference to IEC 62321: 2008 and performed by UV-VIS.	2	n.d.	
Sum of PBBs	mg/kg	With reference to IEC 62321-6: 2015 and performed by GC/MS.	-	n.d.	
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	mg/kg		5	n.d.	
Nonabromobiphenyl	mg/kg		5	n.d.	
Decabromobiphenyl	mg/kg		5	n.d.	
Sum of PBDEs	mg/kg		With reference to IEC 62321-6: 2015 and performed by GC/MS.	-	n.d.
Monobromodiphenyl ether	mg/kg			5	n.d.
Dibromodiphenyl ether	mg/kg	5		n.d.	
Tribromodiphenyl ether	mg/kg	5		n.d.	
Tetrabromodiphenyl ether	mg/kg	5		n.d.	
Pentabromodiphenyl ether	mg/kg	5		n.d.	
Hexabromodiphenyl ether	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.	

Test Report

No. : KE/2015/C2287

Date : 2015/12/28

Page : 3 of 7

FORMOSA PLASTICS CORPORATION
8F, NO. 201, TUN HUA N. RD., TAIPEI, TAIWAN

Test Item(s)	Unit	Method	MDL	Result
				No.1
DIBP (Di-isobutyl phthalate) (CAS No.: 84-69-5)	mg/kg	With reference to IEC 62321-8 (111/321/CD). Analysis was performed by GC/MS.	50	n.d.
DBP (Dibutyl phthalate) (CAS No.: 84-74-2)	mg/kg	With reference to IEC 62321-8 (111/321/CD). Analysis was performed by GC/MS.	50	n.d.
BBP (Butyl Benzyl phthalate) (CAS No.: 85-68-7)	mg/kg	With reference to IEC 62321-8 (111/321/CD). Analysis was performed by GC/MS.	50	n.d.
DEHP (Di- (2-ethylhexyl) phthalate) (CAS No.: 117-81-7)	mg/kg	With reference to IEC 62321-8 (111/321/CD). Analysis was performed by GC/MS.	50	n.d.

Note :

1. mg/kg = ppm ; 0.1wt% = 1000ppm
2. n.d. = Not Detected
3. MDL = Method Detection Limit
4. " - " = Not Regulated

Test Report

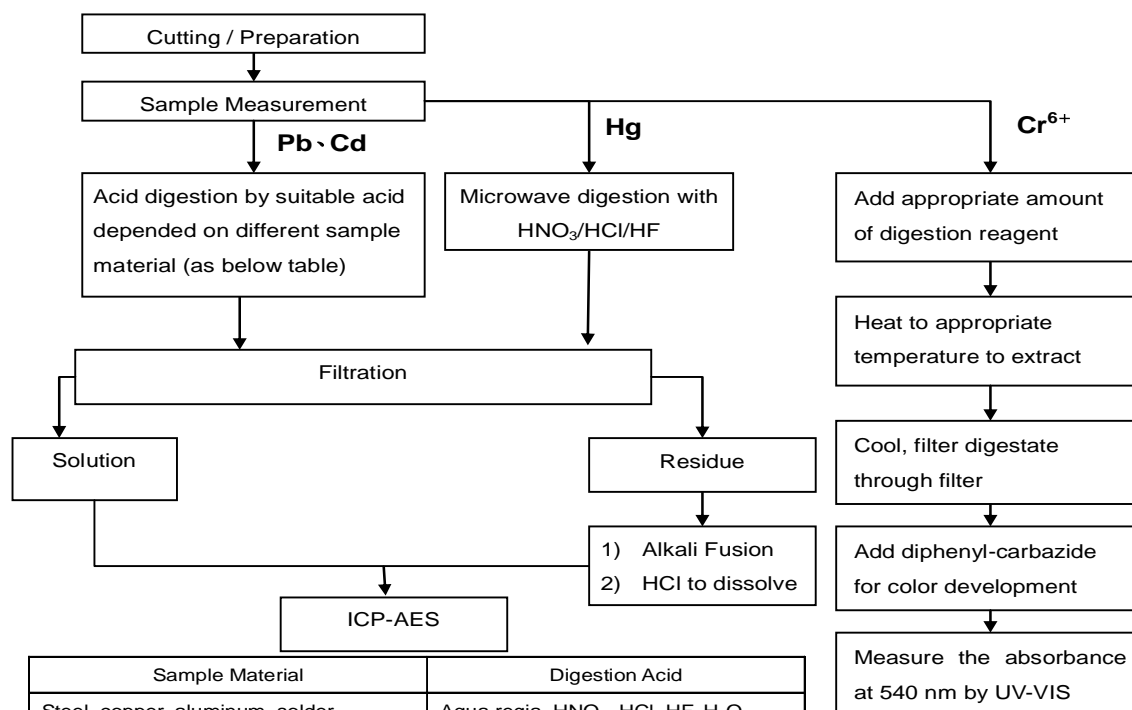
No. : KE/2015/C2287

Date : 2015/12/28

Page : 4 of 7

FORMOSA PLASTICS CORPORATION
8F, NO. 201, TUN HUA N. RD., TAIPEI, TAIWAN

- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr⁶⁺ test method excluded)
- 2) Name of the person who made measurement: Jony Liu
- 3) Name of the person in charge of measurement: Ray Chang



Note :** (1) For non-metallic material, add alkaline digestion reagent and heat to 90~95°C.
(2) For metallic material, add pure water and heat to boiling.

Test Report

No. : KE/2015/C2287

Date : 2015/12/28

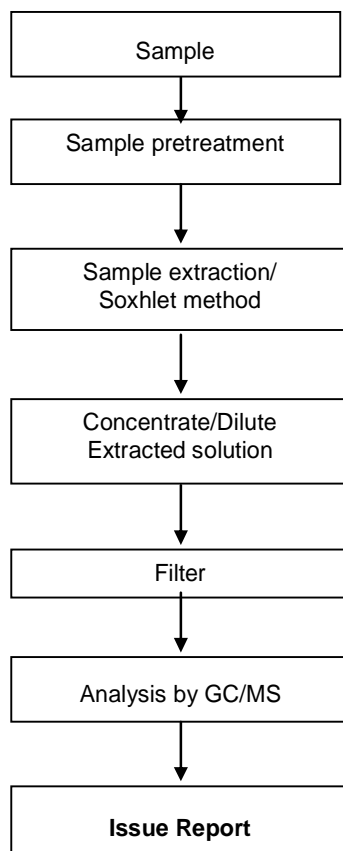
Page : 5 of 7

FORMOSA PLASTICS CORPORATION
8F, NO. 201, TUN HUA N. RD., TAIPEI, TAIWAN

PBB/PBDE analytical FLOW CHART

1) Name of the person who made measurement: Dorothy Chen

2) Name of the person in charge of measurement: Ray Chang



Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. This test report cannot be reproduced, except in full, without prior written permission of the Company. 除非另有說明，此報告結果僅對測試之樣品負責。本報告未經本公司書面許可，不可部分複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Test Report

No. : KE/2015/C2287

Date : 2015/12/28

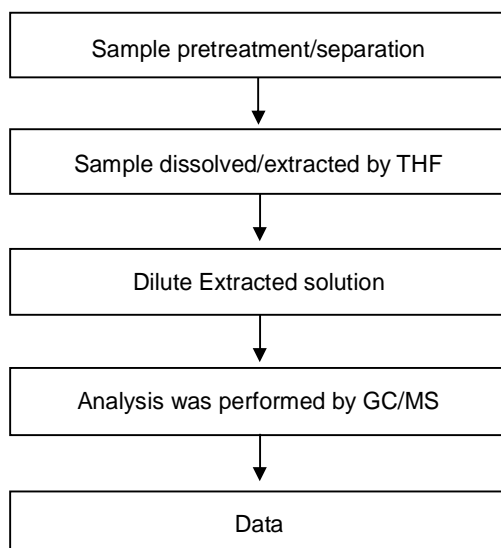
Page : 6 of 7

FORMOSA PLASTICS CORPORATION
8F, NO. 201, TUN HUA N. RD., TAIPEI, TAIWAN

Analytical flow chart of phthalate content

- Name of the person who made measurement: Dorothy Chen
- Name of the person in charge of measurement: Ray Chang

【Test method: IEC 62321-8】



Test Report

No. : KE/2015/C2287

Date : 2015/12/28

Page : 7 of 7

FORMOSA PLASTICS CORPORATION
8F, NO. 201, TUN HUA N. RD., TAIPEI, TAIWAN

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

KE/2015/C2287



** End of Report **