

No.: EKR24100287 Date: 12-Jan-2024

FORMOSA PLASTICS CORPORATION

NO. 100, SHUI-GUAN RD., RENWU DIST., KAOHSIUNG CITY 814, TAIWAN

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

Sample Submitted By : FORMOSA PLASTICS CORPORATION

Sample Name : IMPACT MODIFIER ADDITIVE

Style/Item No. : M-51W

Sample Receiving Date : 05-Jan-2024

Testing Period : 05-Jan-2024 to 12-Jan-2024

Test Requested : (1) 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).

(2) Please refer to next pages for the other item(s).

Test Results : Please refer to following pages.

Conclusion : (1) 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.

Ray Chang Ph.D./Departmen Manager Signed for and on behalf SGS TAIWAN LTD.
Chemical Laboratory-Kaohsiung



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Test Part Description

No.1 : WHITE POWDER

Test Result(s)

Test Item(s)	Method	Unit	MDL	Result	Limit
				No.1	
Cadmium (Cd)	With reference to IEC 62321-5: 2013,	mg/kg	2	n.d.	100
	analysis was performed by ICP-OES.				
Lead (Pb)	With reference to IEC 62321-5: 2013,	mg/kg	2	n.d.	1000
	analysis was performed by ICP-OES.				
Mercury (Hg)	With reference to IEC 62321-4: 2013+	mg/kg	2	n.d.	1000
	AMD1: 2017, analysis was performed				
	by ICP-OES.				
Hexavalent Chromium Cr(VI)	With reference to IEC 62321-7-2: 2017,	mg/kg	8	n.d.	1000
	analysis was performed by UV-VIS.				
Monobromobiphenyl		mg/kg	5	n.d.	ı
Dibromobiphenyl		mg/kg	5	n.d.	ı
Tribromobiphenyl		mg/kg	5	n.d.	ı
Tetrabromobiphenyl		mg/kg	5	n.d.	ı
Pentabromobiphenyl		mg/kg	5	n.d.	ı
Hexabromobiphenyl		mg/kg	5	n.d.	1
Heptabromobiphenyl		mg/kg	5	n.d.	ı
Octabromobiphenyl		mg/kg	5	n.d.	ı
Nonabromobiphenyl		mg/kg	5	n.d.	-
Decabromobiphenyl		mg/kg	5	n.d.	-
Sum of PBBs	With reference to IEC 62321-6: 2015,	mg/kg	1	n.d.	1000
Monobromodiphenyl ether	analysis was performed by GC/MS.	mg/kg	5	n.d.	ı
Dibromodiphenyl ether		mg/kg	5	n.d.	ı
Tribromodiphenyl ether		mg/kg	5	n.d.	ı
Tetrabromodiphenyl ether		mg/kg	5	n.d.	1
Pentabromodiphenyl ether		mg/kg	5	n.d.	1
Hexabromodiphenyl ether		mg/kg	5	n.d.	ı
Heptabromodiphenyl ether		mg/kg	5	n.d.	ı
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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Test Item(s)	Method	Unit	MDL	Result	Limit
				No.1	
Butyl benzyl phthalate (BBP)		mg/kg	50	n.d.	1000
Dibutyl phthalate (DBP)	With reference to IEC 62321-8: 2017,	mg/kg	50	n.d.	1000
Diisobutyl phthalate (DIBP)	analysis was performed by GC/MS.	mg/kg	50	n.d.	1000
Di-(2-ethylhexyl) phthalate (DEHP)		mg/kg	50	n.d.	1000
Tetrabromobisphenol A (TBBP-A) (CAS	With reference to RSTS-E&E-121,	mg/kg	10	n.d.	-
No.: 79-94-7)	analysis was performed by LC/MS.				
Medium Chain Chlorinated	With reference to ISO 18219-2: 2021,	mg/kg	50	n.d.	-
Paraffins(C14-C17) (MCCP) (CAS No.:	analysis was performed by GC/MS.				
85535-85-9)					

Note:

- 1. mg/kg = ppm; 0.1wt% = 0.1% = 1000ppm
- 2. MDL = Method Detection Limit
- 3. n.d. = Not Detected (Less than MDL)
- 4. "-" = Not Regulated
- 5. 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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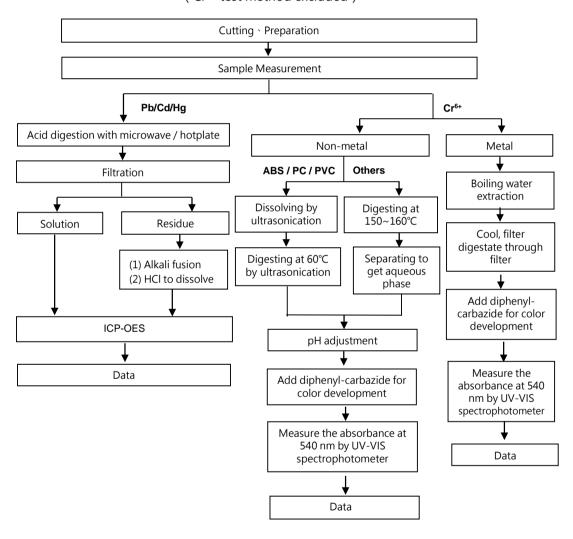


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FORMOSA PLASTICS CORPORATION
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Analytical flow chart of Heavy Metal

These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr^{6+} test method excluded)



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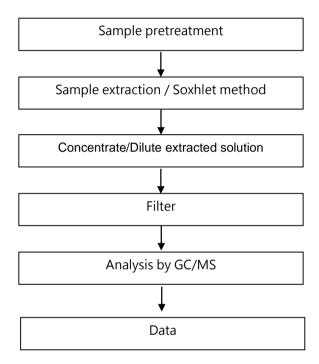
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PBB/PBDE analytical FLOW CHART



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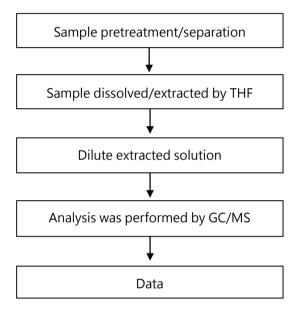


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Analytical flow chart of phthalate content

【Test method: IEC 62321-8】



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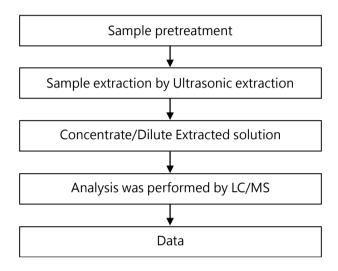
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TBBP-A analytical flow chart



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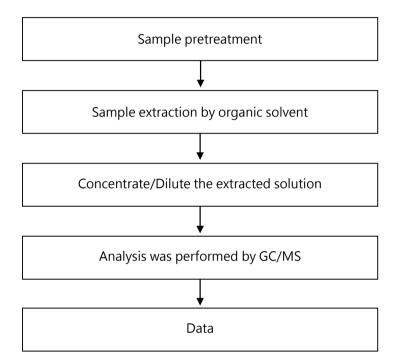


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Analytical flow chart

* Apply to: PCBs, PCNs, PCTs, Mirex, Chlorinated Paraffins, DBBT



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

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** End of Report **

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