



TEST REPORT

15, Jongga-ro, Jung-gu, Ulsan, 44412 Rep. of KOREA

TEL 82-52-220-3000

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Report No : TAP-023294

Receipt Date : Nov.08.2017

Customer : Jin-Ho Son

Test Date : Nov.20.2017

PLAZEN CO., LTD.

#180-10, Yangdong-Ri, Hanam-Eub, Miryang-City, Gyeongnam, Korea.

Sample : Plastic Specimen(AS 200)

Testing Date : Nov.09.2017 ~ Nov.20.2017

Testing Environment : Temperature (20 ± 5) °C, Relative humidity (40 ± 20) %

Test method : Refer to following pages

Test result : Refer to following pages

Attachment : Flow chart and Sample pictures

USAGE : QUALITY CONTROL

- NOTE :
1. The test results on this test report are only limited to the samples and sample names provided by the customer and KTR does not guarantee the quality of all products of the customer, and you can confirm the authenticity of the test report online (www.ktr.or.kr) or by using the QR code.
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 3. Only original copy (including certified copy) of the test report is valid – electronic copy (hard and/or soft) is for your reference only.

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Nov.20.2017

Korea Testing & Research Institute

President



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전자문서본(Electronic Copy)



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Sample : Plastic Specimen(AS 200)

TEST RESULT

Test Items	Unit	Sample	Results	MDL	Test Methods
Pb	mg/kg	-	Not Detected	5	IEC 62321-5 Ed.1.0 : 2013 (ICP)
Cd	mg/kg	-	Not Detected	1	IEC 62321-5 Ed.1.0 : 2013 (ICP)
Hg	mg/kg	-	Not Detected	1	IEC 62321-4 Ed.1.0 : 2013 (CV-AAS)
Cr(VI)	mg/kg	-	Not Detected	1	IEC 62321 Ed.1.0 : 2008 (UV/Vis)
Total-PBBs	mg/kg	-	Not Detected	-	IEC 62321-6 Ed.1.0 : 2015(GC/MS)
Mono-BB	mg/kg	-	Not Detected	10	IEC 62321-6 Ed.1.0 : 2015(GC/MS)
Di-BB	mg/kg	-	Not Detected	10	IEC 62321-6 Ed.1.0 : 2015(GC/MS)
Tri-BB	mg/kg	-	Not Detected	10	IEC 62321-6 Ed.1.0 : 2015(GC/MS)
Tetra-BB	mg/kg	-	Not Detected	10	IEC 62321-6 Ed.1.0 : 2015(GC/MS)
Penta-BB	mg/kg	-	Not Detected	10	IEC 62321-6 Ed.1.0 : 2015(GC/MS)
Hexa-BB	mg/kg	-	Not Detected	10	IEC 62321-6 Ed.1.0 : 2015(GC/MS)
Hepta-BB	mg/kg	-	Not Detected	10	IEC 62321-6 Ed.1.0 : 2015(GC/MS)
Octa-BB	mg/kg	-	Not Detected	10	IEC 62321-6 Ed.1.0 : 2015(GC/MS)
Nona-BB	mg/kg	-	Not Detected	10	IEC 62321-6 Ed.1.0 : 2015(GC/MS)
Deca-BB	mg/kg	-	Not Detected	10	IEC 62321-6 Ed.1.0 : 2015(GC/MS)
Total-PBDEs	mg/kg	-	Not Detected	-	IEC 62321-6 Ed.1.0 : 2015(GC/MS)
Mono-BDE	mg/kg	-	Not Detected	10	IEC 62321-6 Ed.1.0 : 2015(GC/MS)
Di-BDE	mg/kg	-	Not Detected	10	IEC 62321-6 Ed.1.0 : 2015(GC/MS)
Tri-BDE	mg/kg	-	Not Detected	10	IEC 62321-6 Ed.1.0 : 2015(GC/MS)
Tetra-BDE	mg/kg	-	Not Detected	10	IEC 62321-6 Ed.1.0 : 2015(GC/MS)
Penta-BDE	mg/kg	-	Not Detected	10	IEC 62321-6 Ed.1.0 : 2015(GC/MS)
Hexa-BDE	mg/kg	-	Not Detected	10	IEC 62321-6 Ed.1.0 : 2015(GC/MS)
Hepta-BDE	mg/kg	-	Not Detected	10	IEC 62321-6 Ed.1.0 : 2015(GC/MS)
Octa-BDE	mg/kg	-	Not Detected	10	IEC 62321-6 Ed.1.0 : 2015(GC/MS)
Nona-BDE	mg/kg	-	Not Detected	10	IEC 62321-6 Ed.1.0 : 2015(GC/MS)
Deca-BDE	mg/kg	-	Not Detected	10	IEC 62321-6 Ed.1.0 : 2015(GC/MS)

Notes : mg/kg = ppm (parts per million)

N.D. = Not detected (<MDL)

MDL = Method detection limit



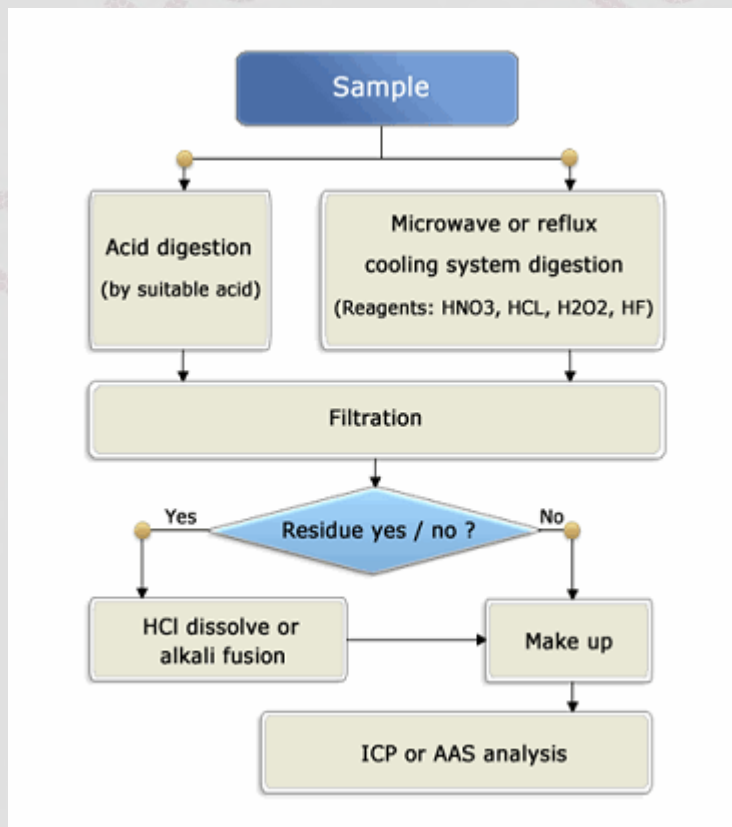
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Sample : Plastic Specimen(AS 200)

Pb, Cd, Hg : Tested by Chung-Hyup Lee (Tel : 052-220-3123)

Flow Chart of heavy metals analysis





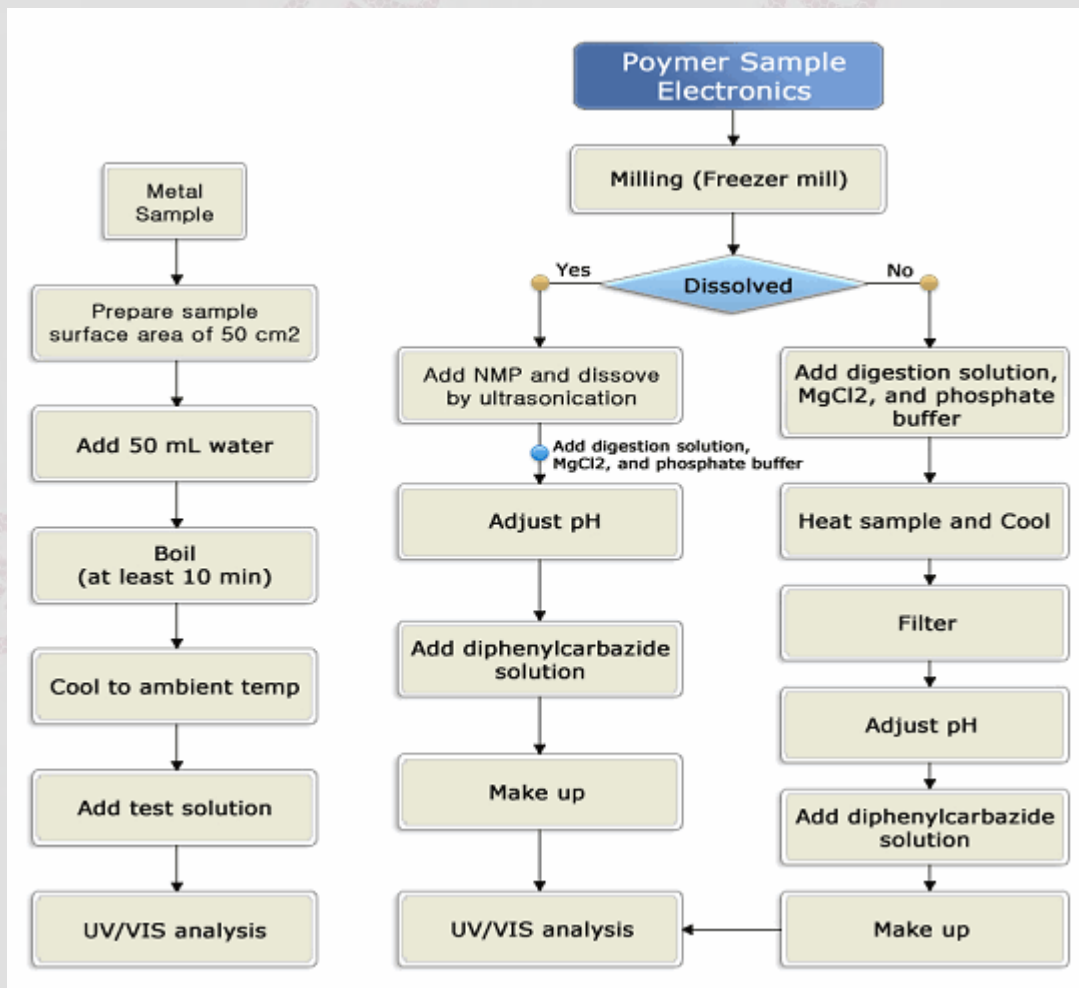
TEST REPORT

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Sample : Plastic Specimen(AS 200)

Cr(VI) : Tested by Chung-Hyoun Lee(Tel : 052-220-3123)

Flow Chart of Cr(VI) analysis





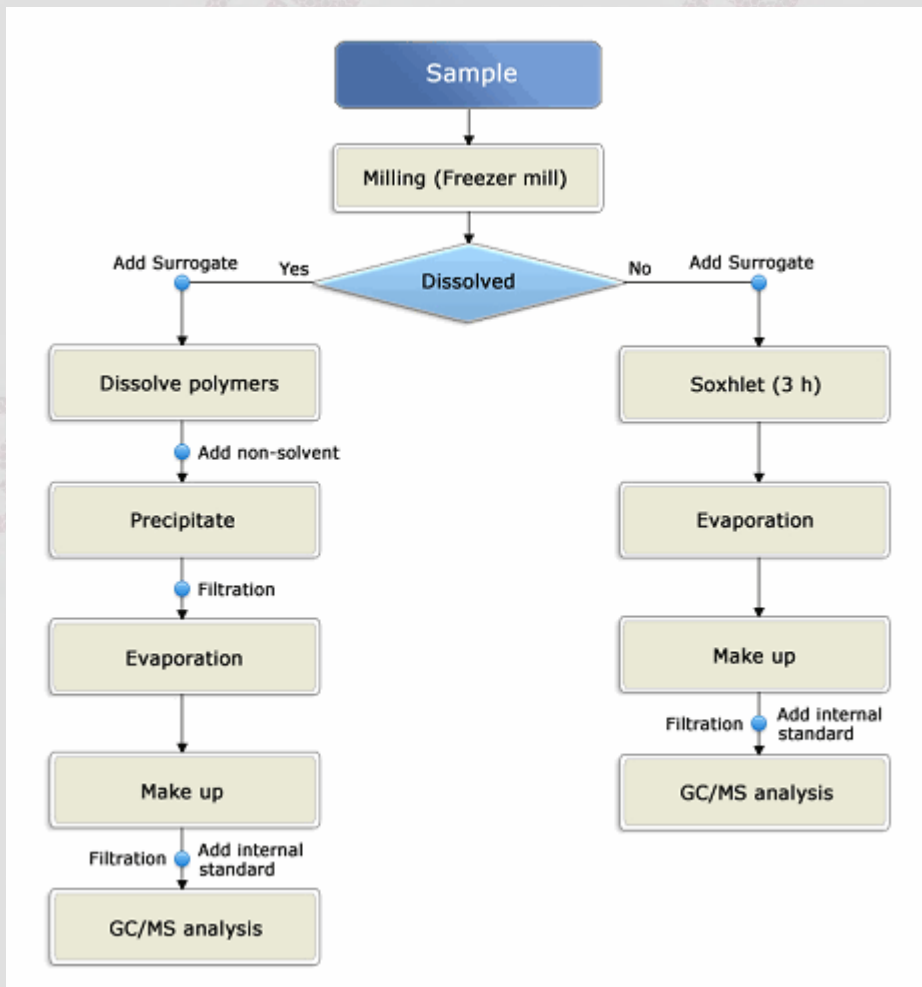
TEST REPORT

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Sample : Plastic Specimen(AS 200)

PBBs, PBDEs : Tested by Cho Duwan (Tel : 052-220-3168)

Flow Chart of PBBs and PBDEs analysis



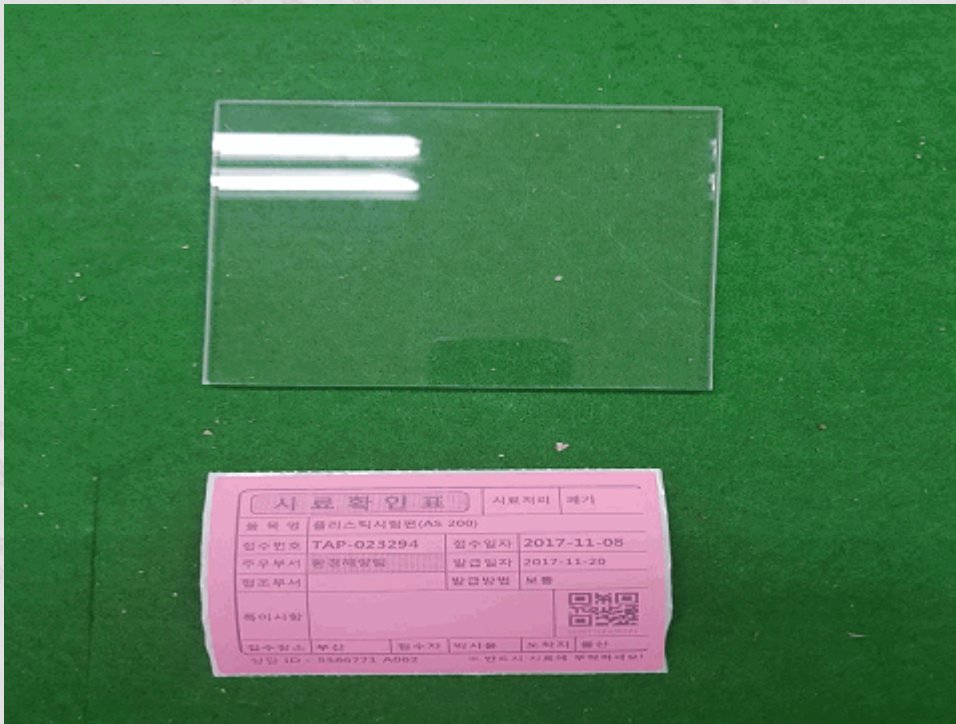


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Sample



- End of Report -