

Reference No.	14010602-2
Date of Issue	January 13,2014

Page 1 of 5

Applicant: PTM Engineering Plastics(Nantong) Co.,Ltd.

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**SAES** Sumika Analysis &  
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## Test Report

Test was consigned by the client order dated on January 6, 2014

Test results are in the following pages

Authorized Signer

*Zeng An Chao*

Reference No.	14010602-2
Date of Issue	January 13,2014

**Sample Descriptions:**

Sample Name: POM(POLYOXYMETHYLENE)

Model No: IUPITAL F20-03 NATURAL

Substance Information:  $[(CH_2-O)_p-(CH_2CH_2O)_q]_n$

Sample Received Date: January 7, 2014

Sample Tested Date: January 7, 2014 to January 13, 2014

**Test Items:**

1. Quantification of Cd, Pb, Hg
2. Quantification of Cr<sup>6+</sup>
3. Quantification of PBBs, PBDEs

**Test Methods:**

1. Quantification of Cd, Pb, Hg:  
Pretreatment: IEC 62321-2008  
Test: IEC 62321-2008
2. Quantification of Cr<sup>6+</sup>:  
Pretreatment: IEC 62321-2008  
Test: IEC 62321-2008
3. Quantification of PBBs, PBDEs:  
Pretreatment: US EPA3550C-2007  
Test: US EPA8270D-2007

**Test Apparatuses:**

1. iCAP6500 DUO
2. UV-1650PC
3. Agilent 6890N/5975C

Reference No.	14010602-2
Date of Issue	January 13,2014

Page 3 of 5

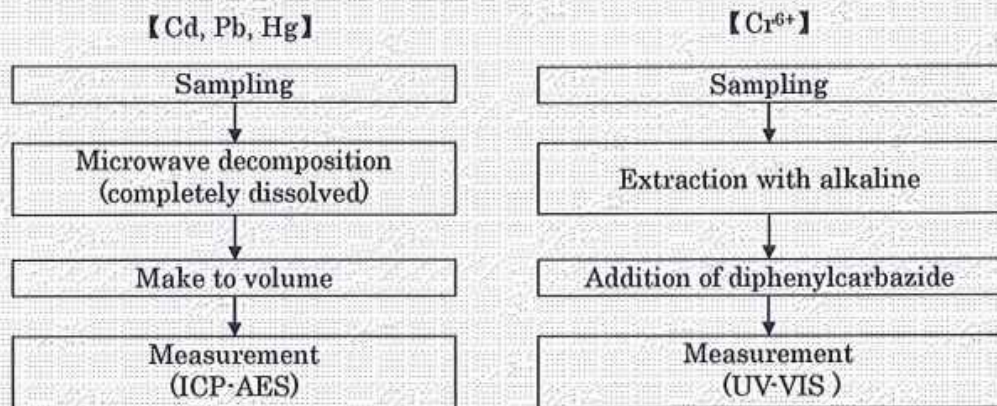
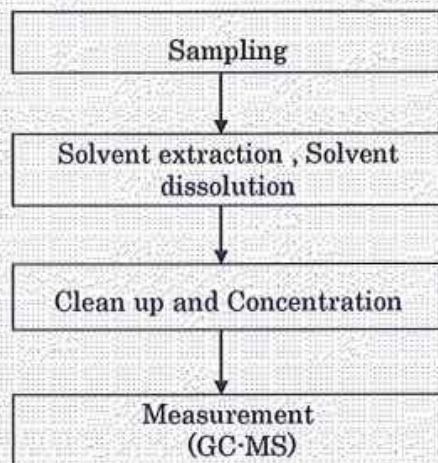
**Test Results:**

Test items		IUPITAL F20-03 NATURAL	LOQ	Limit
Cd		N.D.	2	100
Pb		N.D.	2	1000
Hg		N.D.	2	1000
Cr <sup>6+</sup>		N.D.	1	1000
PBBs	1 Mono-BBs	N.D.	10	·
	2 Di-BBs	N.D.	10	·
	3 Tri-BBs	N.D.	10	·
	4 Tetra-BBs	N.D.	10	·
	5 Penta-BBs	N.D.	10	·
	6 Hexa-BBs	N.D.	10	·
	7 Hepta-BBs	N.D.	10	·
	8 Octa-BBs	N.D.	10	·
	9 Nona-BBs	N.D.	10	·
	10 Deca-BBs	N.D.	10	·
	Total PBBs		N.D.	·
PBDEs	1 Mono-BDEs	N.D.	10	·
	2 Di-BDEs	N.D.	10	·
	3 Tri-BDEs	N.D.	10	·
	4 Tetra-BDEs	N.D.	10	·
	5 Penta-BDEs	N.D.	10	·
	6 Hexa-BDEs	N.D.	10	·
	7 Hepta-BDEs	N.D.	10	·
	8 Octa-BDEs	N.D.	10	·
	9 Nona-BDEs	N.D.	10	·
	10 Deca-BDEs	N.D.	10	·
	Total PBDEs		N.D.	·

- Notes: 1. "LOQ" = Limit of quantification  
 2. "N.D." = No Detected  
 3. "·" = Unstated

**Conclusion:** Based on the performed tests on submitted samples, the results of Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE) comply with the limits as set by RoHS Directive 2011/65/EU Annex II.

## Analysis flow chart:

**【PBBs, PBDEs】**

Reference No.	14010602-2
Date of Issue	January 13, 2014

Page 5 of 5

Analyzer: *chen Xiaoya*

Date: *2014.1.13*

Checker: *Li Bing*

Date: *2014.1.13*

**Sample Photographs:**



The conclusion of the consignment test is only valid for the provided samples

\*\*\* End \*\*\*