



TEST REPORT

To : ICON PACKAGING SDN. BHD.
No. 8, Jalan Pinang Emas 1,
Taman Pinang Emas, Pinang Tunggal,
08000 Sungai Petani, Kedah.

Report No. : IP1603-0608

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Date of Issue : 28/03/2016

Attn: Ms. M.C. Tan

The following sample(s) was(were) identified by the customer as :

PP-NON WOVEN

Date of Sample Received : 24/03/2016

Date of Testing : 24/03/2016 to 28/03/2016

Objective :

Determination of Cadmium, Lead, Mercury and Hexavalent Chromium in accordance with limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU and compliance with Sony Standard (SS-00259) Packaging.

Conclusion :

Test Required	Compliance
(EU) 2015/863 amending Annex II to Directive 2011/65/EU	Comply
Management Regulations for the Environment-Related Substances to be controlled which are included in Parts And Materials (SS-00259 for General Use, Fourteen Edition)- Additional rules for packaging components and materials (Cd, Pb, Hg and Cr6+)	Comply

Remark : Sampled and submitted by ICON PACKAGING SDN. BHD.

Test Performed by : Yip Pooi Chee

**Signed for and on behalf of
NM LABORATORY SDN. BHD.**

Yeap Cheo Mooi, M.Sc., MMIC
Consulting Chemist
IKM No. M/1913/4300/2002

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Sample Photograph(s):



Standard Method / Equipment / Technique Description:

Method Ref.No.	Standard Method	Method Description/Title
M-1	IEC 62321,Ed.1; Sec.8 ICP-AES	Determination of lead and cadmium in polymers by ICP-OES, ICP-MS and AAS Inductively Coupled Plasma-Atomic Emission Spectrometry
M-2	IEC 62321,Ed.1; Sec.7 ICP-AES	Determination of Mercury in polymers, metals and electronics by CV-AAS, CV-AFS, ICP-OES and ICP-MS Inductively Coupled Plasma-Atomic Emission Spectrometry
M-3	IEC 62321,Ed.1; Annex C UV Spectrophotometer	Determination of hexavalent chromium (Cr(VI)) in polymers and electronics by the colorimetric method Chromium Hexavalent-Colorimetric measurement by UV/Vis Spectroscopy

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Yeap Cheo Mooi, M.Sc., MMIC
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Test Results(s) :

Parameter	Result	Unit	Method Ref. No	MDL; mg/kg
Cadmium (as Cd)	ND(<0.5)	mg/kg	M-1	0.5
Lead (as Pb)	ND(<1)	mg/kg	M-1	1
Mercury (as Hg)	ND(<5)	mg/kg	M-2	5
Hexavalent Chromium	ND(<1)	mg/kg	M-3	1

- Note(s)** :
- The test portion was Totally Dissolved for Cadmium, Lead & Mercury Test by using pre-conditioning method as mentioned above.
 - The test portion was ashed before the pre-conditioning method for Cadmium & Lead test as mentioned above.

Summary of RoHS and Sony Standard (SS-00259) Packaging requirements:

Requirements	RoHS Limit ; mg/kg	SS-00259 Packaging, 14 th Edition ; mg/kg	
Cd	100	5	Total of 4 elements must be <100 mg/kg
Pb	1000	30	
Hg	1000	5	
Cr ⁶⁺	1000	5 (Cr)	

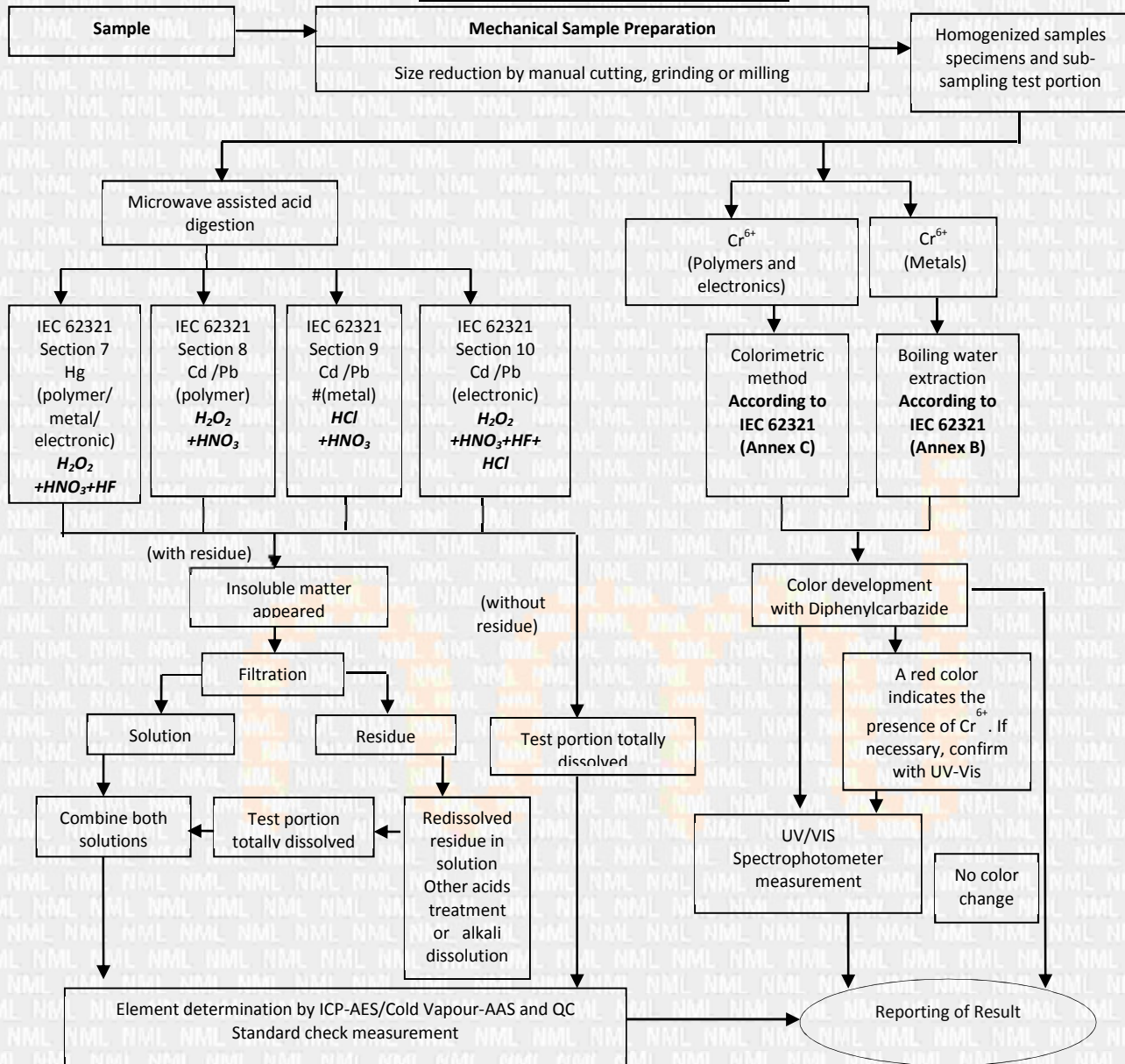
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Flow chart for method IEC 62321



#	Type of Sample	Acid Mixture
	Common method of sample digestion	2HCL + HNO ₃
	Sample contains Sn	3 HCL + 1 HNO ₃
	Sample contains Zr, Hf, Ti, Ta, Nb or W	1 HNO ₃ + 3HF

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- End of Report -



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