



Test Report

No. 4239410-CH01-R1

Date: January 8, 2018

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RJR Technologies Inc.
7750 Edgewater Dr.
Oakland, CA 04621
United States

"This report supersedes all previous documents bearing the test report number 4239410-CH01."

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

Epoxy
Model/Part #: RJR – Adhesives – Solvent Based
RJR – Adhesives – Solvent Free
Country of Destination: USA

Sample Received Date: 11/29/2017

Testing Period: 12/4/2017 – 12/6/2017

Revision Summary : Updated sample description per Client's request.

Test Requested : Please refer to the test results.

Test Method & Results : Please refer to next page(s).

Result Summary :

Test Requested	Comment
1. RoHS Directive 2011/65/EU Annex II [amended by Directive (EU) 2015/863]	PASS

Signed for and on behalf of SGS North America, Inc.

Prepared By:

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1. RoHS Directive 2011/65/EU Annex II [amended by Directive (EU) 2015/863]

Test Item(s):	Unit	Test Method	Results		MDL	Limit
			1	2		
Cadmium(Cd)	mg/kg	With reference to IEC 62321-5:2013 (Determination of Cd and Pb by ICP-OES and /or ICP-MS)	ND	ND	2	100
Lead (Pb)	mg/kg		ND	ND	2	1000
Mercury (Hg)	mg/kg	With reference to IEC 62321-4:2013 (Determination of Hg by ICP-OES and/ or ICP-MS)	ND	ND	2	1000
Hexavalent Chromium (CrVI)	mg/kg	With reference to IEC 62321:2008 (Determination of CrVI by UV-VIS)	ND*	ND*	2	1000
Sum of PBBs	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB and PBDE by GC-MS)	ND	ND	-	1000
Monobromobiphenyl	mg/kg		ND	ND	5	-
Dibromobiphenyl	mg/kg		ND	ND	5	-
Tribromobiphenyl	mg/kg		ND	ND	5	-
Tetrabromobiphenyl	mg/kg		ND	ND	5	-
Hexabromobiphenyl	mg/kg		ND	ND	5	-
Pentabromobiphenyl	mg/kg		ND	ND	5	-
Heptabromobiphenyl	mg/kg		ND	ND	5	-
Octabromobiphenyl	mg/kg		ND	ND	5	-
Nonabromobiphenyl	mg/kg		ND	ND	5	-
Decabromobiphenyl	mg/kg		ND	ND	5	-
Sum of PBDEs	mg/kg		ND	ND	-	1000
Monobromodiphenyl ether	mg/kg		ND	ND	5	-
Dibromodiphenyl ether	mg/kg		ND	ND	5	-
Tribromodiphenyl ether	mg/kg		ND	ND	5	-
Tetrabromodiphenyl ether	mg/kg		ND	ND	5	-
Pentabromodiphenyl ether	mg/kg		ND	ND	5	-
Hexabromodiphenyl ether	mg/kg		ND	ND	5	-
Heptabromodiphenyl ether	mg/kg		ND	ND	5	-
Octabromodiphenyl ether	mg/kg		ND	ND	5	-
Nonabromodiphenyl ether	mg/kg	ND	ND	5	-	
Decabromodiphenyl ether	mg/kg	ND	ND	5	-	
Conclusion	/		PASS	PASS	/	/

Sample Description:

1. Epoxy - RJR Adhesive – Solvent Based – Style # JT7018B
2. Epoxy - RJR Adhesive – Solvent Free – Style # JT7018C

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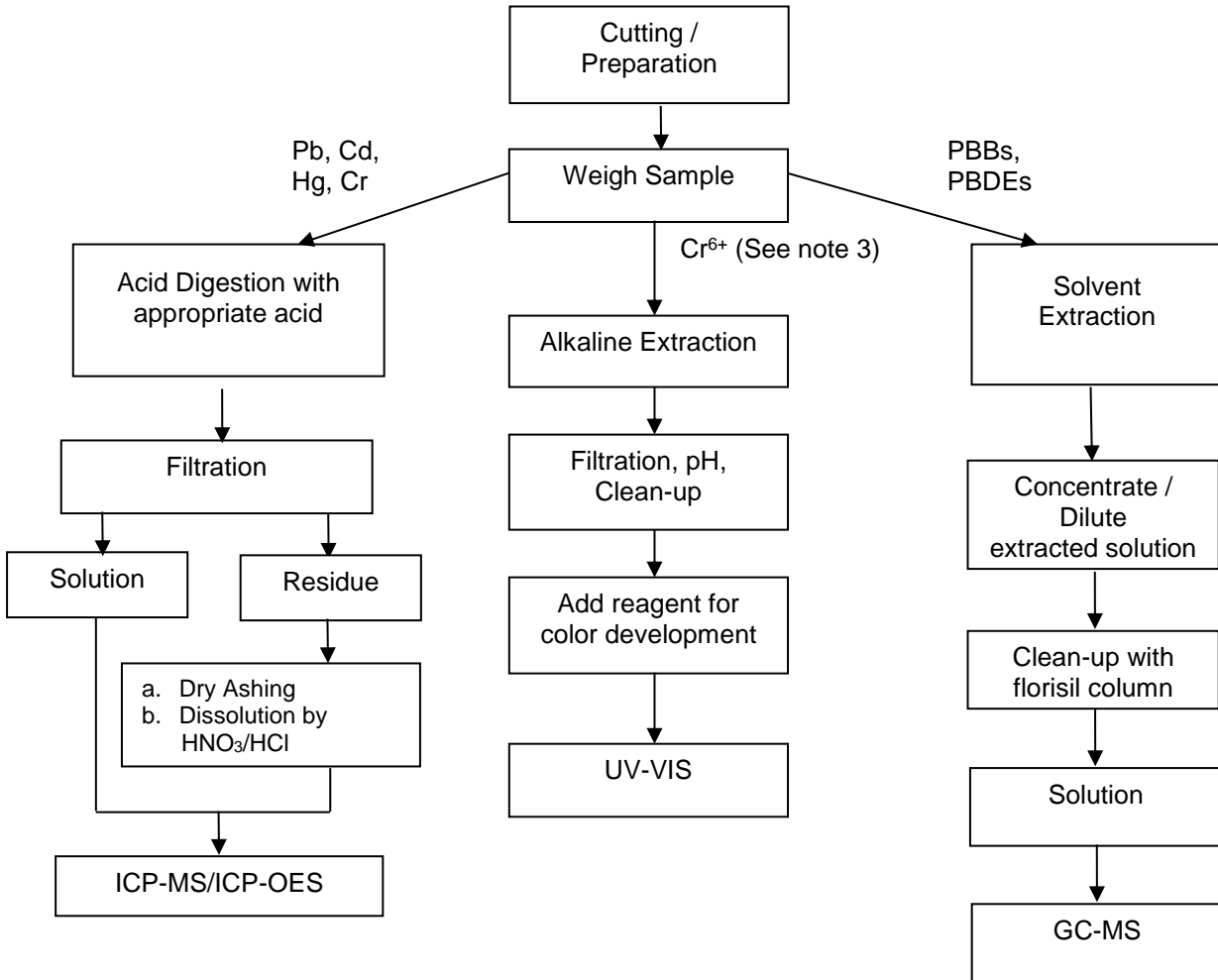
Note:

- (a) mg/kg = ppm ; 0.1wt% = 1000ppm
- (b) ND= not detected
- (c) MDL = Method Detection Limit
- (d) - = not regulated
- (e) * = Total Chromium analysis by ICP-MS and/or ICP-OES was not detected in submitted sample. Therefore, Hexavalent Chromium determination using UV-Visible Spectroscopy was not performed.

http://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101:::FSP_ORG_ID,FSP_LANG_ID:1258637,25

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Flowchart for ROHS Testing:



- Note :
1. For Cr(VI), spot test is adopted for metal sample.
 2. The Cd, Pb, Hg contents test on polymeric samples were dissolved totally by pre-conditioning method according to above flow chart.
 3. Cr⁶⁺ is performed only when total Cr is detected

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Sample Photo(s):



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