

Report No.: PN:HL:6490005910 DATE: 08/06/2015

RAND POLYPRODUCTS PVT. LTD.

GAT NO. 3A/2, OLD GAT NO. 1649, VILL GHOTAWADE, TAL. MULSHI

PUNE-412115

INDIA

CONTACT PERSON: MR NAYAK U. V

THE FOLLOWING SAMPLE(S) WAS/WERE SUBMITTED AND IDENTIFIED BY/ON BEHALF OF THE CUSTOMER

AS:

SAMPLE DESCRIPTION EPOCAST 3124

SAMPLE RECD ON 21/05/2015 **TESTING PERIOD**: 03/06/2015 to 08/06/2015

TEST(S) REQUESTED ROHS 6 E

TEST METHOD :IEC 62321 : 2008 / 2013

CONCLUSION: Based on the performed tests on selected part of 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;

recasting 2002/95/EC.

Test result:

RoHS Directive 2011/65/EU Annex II

Test Item(s):	Unit	Test Method	Results	MDL	<u>Limit</u>
Cadmium(Cd)	mg/kg	With reference to IEC 62321-5:2013 (Determination of Cd by ICP-OES)	n.d.	5	100
Lead (Pb)	mg/kg	With reference to IEC 62321-5:2013 (Determination of Pb by ICP-OES)	n.d.	5	1000
Mercury (Hg)	mg/kg	With reference to IEC 62321-4:2013 (Determination of Hg by ICP-OES)	n.d.	5	1000
Hexavalent Chromium (CrVI)	mg/kg	With reference to IEC 62321:2008 (Determination of Cr-VI by UV-Spectrophotometer)	n.d.	2	1000
Sum of PBBs	mg/kg	With reference to IEC 62321:2008 (Determination of PBB by GC-MS)	n.d.	n.d.	1000
Monobromobiphenyl	mg/kg	With reference to IEC 62321:2008 (Determination of PBB by GC-MS)	n.d.	50	-
Dibromobiphenyl	mg/kg	With reference to IEC 62321:2008 (Determination of PBB by GC-MS)	n.d.	50	-
Tribromobiphenyl	mg/kg	With reference to IEC 62321:2008 (Determination of PBB by GC-MS)	n.d.	50	-
Tetrabromobiphenyl	mg/kg	With reference to IEC 62321:2008 (Determination of PBB by GC-MS)	n.d.	50	-
Hexabromobiphenyl	mg/kg	With reference to IEC 62321:2008 (Determination of PBB by GC-MS)	n.d.	50	-
Pentabromobiphenyl	mg/kg	With reference to IEC 62321:2008 (Determination of PBB by GC-MS)	n.d.	50	-

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Test Item(s):	Unit	Test Method	Results	MDL	<u>Limit</u>
Heptabromobiphenyl	mg/kg	With reference to IEC 62321:2008 (Determination of PBB by GC-MS)	n.d.	50	-
Octabromobiphenyl	mg/kg	With reference to IEC 62321:2008 (Determination of PBB by GC-MS)	n.d.	50	-
Nonabromobiphenyl	mg/kg	With reference to IEC 62321:2008 (Determination of PBB by GC-MS)	n.d.	50	-
Decabromobiphenyl	mg/kg	With reference to IEC 62321:2008 (Determination of PBB by GC-MS)	n.d.	50	1
Sum of PBDEs	mg/kg	With reference to IEC 62321:2008 (Determination of PBDE by GC-MS)	n.d.	-	1000
Monobromodiphenyl ether	mg/kg	With reference to IEC 62321:2008 (Determination of PBDE by GC-MS)	n.d.	50	1
Dibromodiphenyl ether	mg/kg	With reference to IEC 62321:2008 (Determination of PBDE by GC-MS)	n.d.	50	-
Tribromodiphenyl ether	mg/kg	With reference to IEC 62321:2008 (Determination of PBDE by GC-MS)	n.d.	50	1
Tetrabromodiphenyl ether	mg/kg	With reference to IEC 62321:2008 (Determination of PBDE by GC-MS)	n.d.	50	-
Pentabromodiphenyl ether	mg/kg	With reference to IEC 62321:2008 (Determination of PBDE by GC-MS)	n.d.	50	-
Hexabromodiphenyl ether	mg/kg	With reference to IEC 62321:2008 (Determination of PBDE by GC-MS)	n.d.	50	-
Heptabromodiphenyl ether	mg/kg	With reference to IEC 62321:2008 (Determination of PBDE by GC-MS)	n.d.	50	-
Octabromodiphenyl ether	mg/kg	With reference to IEC 62321:2008 (Determination of PBDE by GC-MS)	n.d.	50	-
Nonabromodiphenyl ether	mg/kg	With reference to IEC 62321:2008 (Determination of PBDE by GC-MS)	n.d.	50	-
Decabromodiphenyl ether	mg/kg	With reference to IEC 62321:2008 (Determination of PBDE by GC-MS)	n.d.	50	-

Note:

(a) mg/kg = ppm; 0.1wt% = 1000ppm

(b) n.d.= not detected

(c) MDL = Method Detection Limit

(d) - = not regulated

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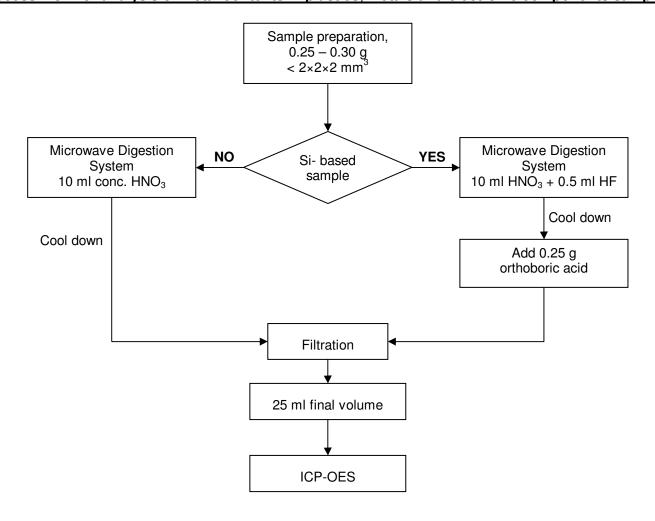
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Report No.: PN:HL:6490005910 DATE: 08/06/2015

Process Flow for analysis of metal contents in plastics, metals and electronic components sample



Analyzed By: Vijaykumar Phapale Checked By: Amit Kulkarni

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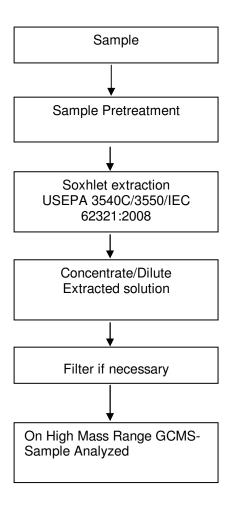
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Report No.: PN:HL:6490005910 DATE: 08/06/2015

Process Flow for analysis of Flame Retardants in plastics, metals and electronic components sample



Analyzed By: Sachin Vibhute Checked By: Amit Kulkarni

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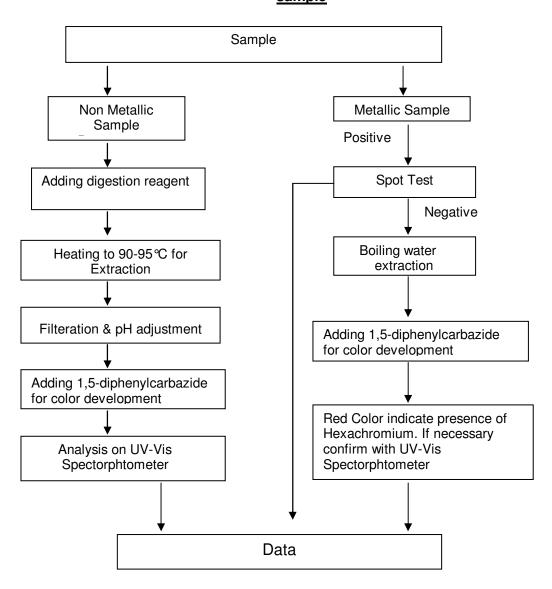
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Report No.: PN:HL:6490005910 DATE: 08/06/2015

<u>Process Flow for analysis of Hexachromium contents in plastics, metals and electronic components</u> <u>sample</u>



Analyzed By: Sachin Vibhute Checked By: Amit Kulkarni

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Sample Photo: as received



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