TEST REPORT

Report No. : MAN:TR:9530009996 **DATE : 13/06/2018**

DEE FIVE SHRINK INSULATIONS PRIVATE LIMITED
PLOT NO. - 165, SECTOR - 17, HSIIDC, BAHADURGARH
Jhajjar-124507
IN
CONTACT PERSON : MR. NEERAJ DHINGRA

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

SAMPLE DESCRIPTION	HEAT SHRINK SLEEVE	
COUNTRY OF ORIGIN	INDIA	
SAMPLE RECD ON	04/06/2018	**TESTING PERIOD :** 05/06/2018 - 12/06/2018
TEST(S) REQUESTED	ROHS TEST	

Conclusion : Based on the performed tests on submitted sample(s), the results of Cadmium, Lead, Mercury, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs) comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU
(Pass for testing on submitted sample)

Per Pro SGS India Pvt Ltd.

Authorized Signatory
Kapil Patil
(Asst. Manager- Chemical)
Email your Test Report Related Enquiries at Feedback.trp@sgs.com

JOE No. : 1853802191 Control No.:9535009358

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Test Part Description:

Product No.	Sample No.	Material Description	Remarks
-	1	HEAT SHRINK SLEEVE	-

Remarks:
(1) 1mg/kg=0.0001%
(2) MDL = Method Detection Limit
(3) ND = Not Detected (<MDL)
(4) - = not regulated

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

Test Method:

(1) With reference to IEC 62321-5:2013, determination of Cadmium by ICP-OES.
(2) With reference to IEC 62321-5:2013, determination of Lead by ICP-OES.
(3) With reference to IEC 62321-4:2013, determination of Mercury by ICP-OES.
(4) With reference to IEC 62321-7-2:2017, determination of Hexavalent Chromium by Colorimetric Method using UV-Vis and/or with reference to IEC 62321-5:2013, determination of Chromium by ICP-OES.
(5) With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS.

SGS India Private Ltd. Transportation, Plot No. 21, Sector-3, IMT Manesar,Pin-122050, Haryana India t: (91- 124) 678 7600

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Test result:

Test Item(s):	Unit	Results	MDL	Limit
		Sample -1		
Cadmium(Cd)	mg/kg	n.d.	5	100
Lead (Pb)	mg/kg	n.d.	5	1000
Mercury (Hg)	mg/kg	n.d.	5	1000
Hexavalent Chromium (CrVI)	mg/kg	n.d.	8	1000
Sum of PBBs	mg/kg	**n.d.**	-	1000
Monobromobiphenyl	mg/kg	n.d.	50	-
Dibromobiphenyl	mg/kg	n.d.	50	-
Tribromobiphenyl	mg/kg	n.d.	50	-
Tetrabromobiphenyl	mg/kg	n.d.	50	-
Hexabromobiphenyl	mg/kg	n.d.	50	-
Pentabromobiphenyl	mg/kg	n.d.	50	-
Heptabromobiphenyl	mg/kg	n.d.	50	-
Octabromobiphenyl	mg/kg	n.d.	50	-
Nonabromobiphenyl	mg/kg	n.d.	50	-
Decabromobiphenyl	mg/kg	n.d.	50	-
Sum of PBDEs	mg/kg	**n.d.**	-	1000
Monobromodiphenyl ether	mg/kg	n.d.	50	-
Dibromodiphenyl ether	mg/kg	n.d.	50	-
Tribromodiphenyl ether	mg/kg	n.d.	50	-
Tetrabromodiphenyl ether	mg/kg	n.d.	50	-
Pentabromodiphenyl ether	mg/kg	n.d.	50	-
Hexabromodiphenyl ether	mg/kg	n.d.	50	-
Heptabromodiphenyl ether	mg/kg	n.d.	50	-
Octabromodiphenyl ether	mg/kg	n.d.	50	-
Nonabromodiphenyl ether	mg/kg	n.d.	50	-
Decabromodiphenyl ether	mg/kg	n.d.	50	-

Notes:

(1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.
IEC 62321 series is equivalent to EN 62321 series

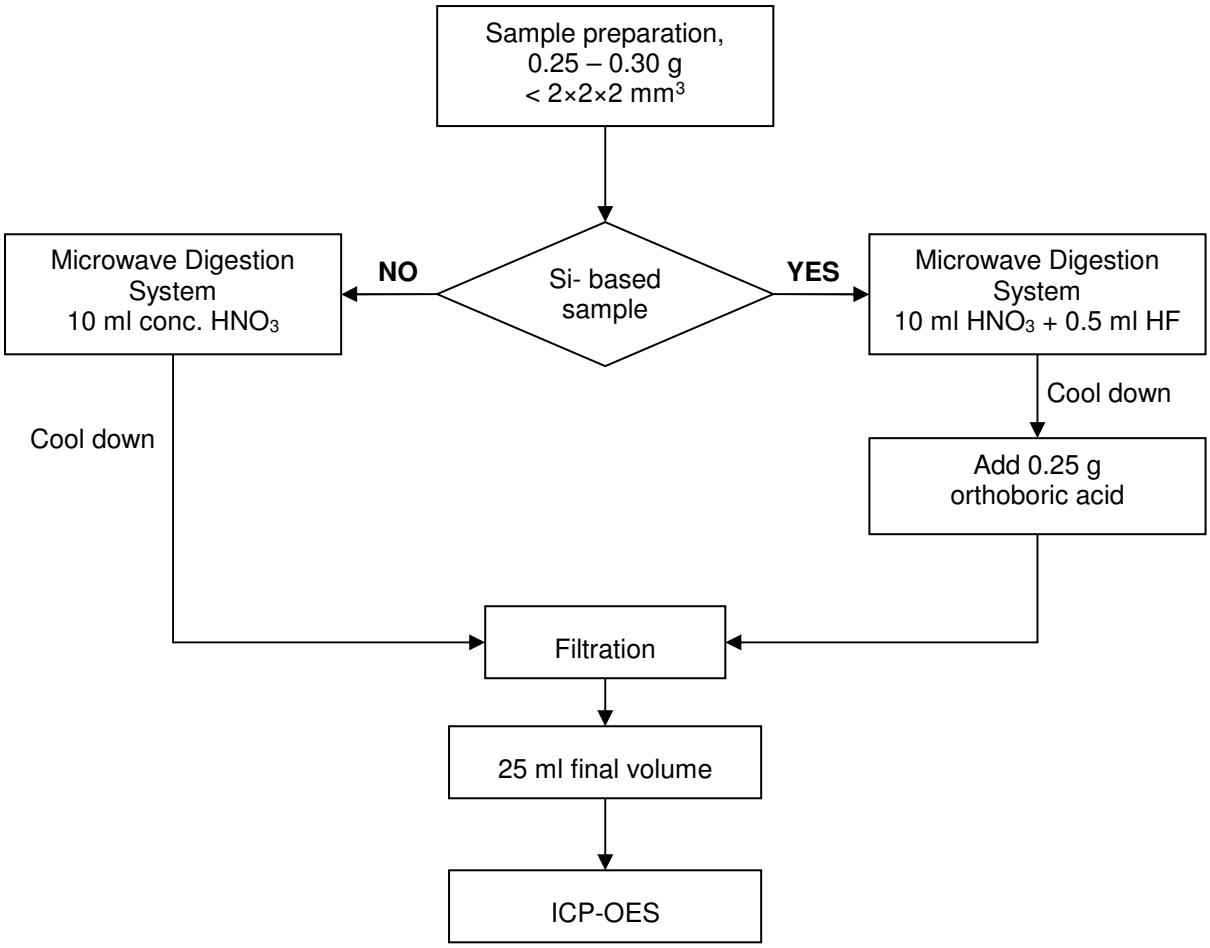
http://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP_ORG_ID,FSP_LANG_ID:1258637,25

(2) Test has been performed on composite parts as per client's request

(3) The result of Hexavalent Chromium (Cr(VI)) is "ND" as the result of Chromium (Cr) is "ND", and confirmation test of Hexavalent Chromium (Cr(VI)) is not required.

(4) If the Chromium (Cr) content is greater than the MDL of of Hexavalent Chromium (Cr(VI)), confirmation test of Hexavalent Chromium (Cr(VI)) is required.

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



Analyzed By : Deepali Binawade **Checked By :** Arjun Jagtap

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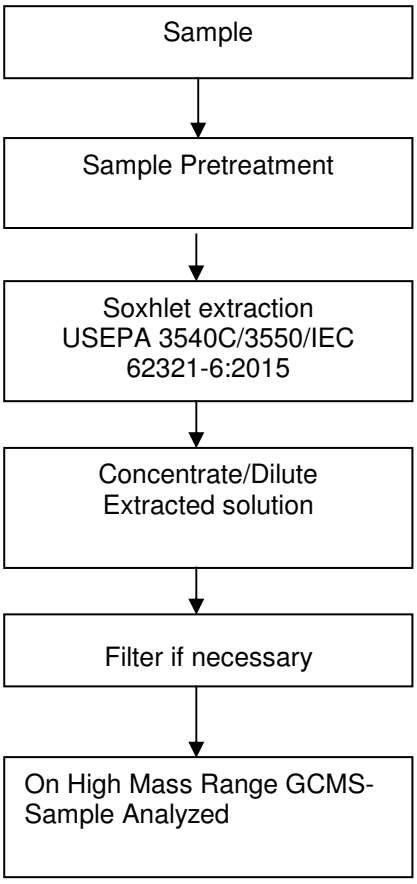
Process Flow for analysis of Flame Retardants in plastics, metals and electronic components sample



Analyzed By : Deepali Binawade **Checked By :** Arjun Jagtap

JOE No. : 1853802191 Control No.:9535009358

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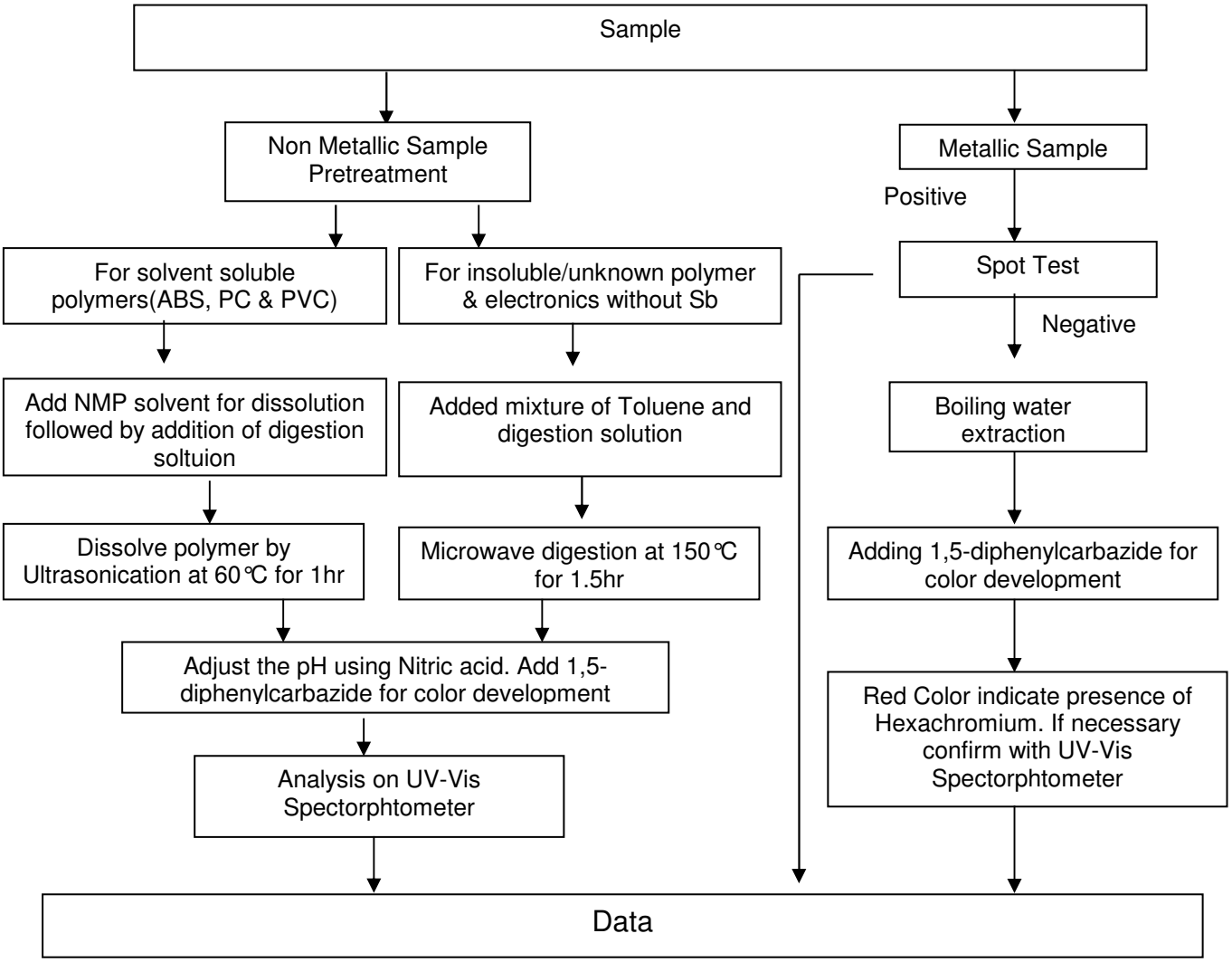
Process Flow for analysis of Hexavalent chromium contents in plastics, metals and electronic components sample



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Sample Photo : as received


SGS authenticate the photo on original report only

Note : Test performed as per the conditions given by the client.
Above test has been subcontracted to SGS Approved Lab

*** End of Report ***

SGS India Private Ltd. Transportation, Plot No. 21, Sector-3, IMT Manesar,Pin-122050, Haryana India t: (91- 124) 678 7600