



# Test Report

No. 4343693-CH01-R3

Date: October 5, 2018

Page 1 of 15

NeoGraf Solutions, LLC  
11709 Madison Ave.  
Lakewood, OH 44107  
United States

"This report supersedes all previous documents bearing the test report number 4343693-CH01-R2."

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

Sample Received Date: **7/27/2018**

Testing Period: **8/1/2018 – 8/9/2018**

Revision Summary : R1: Updated sample description.  
R2: Additional test results added.  
R3: Test method for Hexavalent Chromium (CrVI) updated.

Test Requested : Please refer to the result summary.

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

Result Summary :

Test Requested	Comment
1. RoHS Directive 2011/65/EU Annex II	PASS
2. US California Proposition 65 – Phthalate Content	PASS
3. Halogen content (Cl, Br, I, F) of the submitted sample(s) with reference to BS EN 14582:2016	See Test Results
4. Antimony Content	See Test Results
5. Annex XVII of REACH Regulation (EC) No. 1907/2006 and its amendments – Perfluorooctane sulfonates (PFOS) content (Formerly Directive 2006/122/EC)	PASS
6. Perfluorooctanoic Acid (PFOA) Content	See Test Results
7. Beryllium Content	See Test Results
8. Directive (EU) 2015/863 of amending RoHS Directive 2011/65/EU	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**

Test Item(s):	Unit	Test Method	Results	MDL	Limit
			1		
Cadmium(Cd)	mg/kg	With reference to IEC 62321-5:2013	ND	2	100
Lead (Pb)	mg/kg	(Determination of Cd and Pb by ICP-OES and /or ICP-MS)	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	2	1000
Hexavalent Chromium (CrVI)	mg/kg	With reference to IEC 62321-7-2:2015 (Determination of CrVI by UV-Vis)	ND*	2	1000
<b>Sum of PBBs</b>	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB and PBDE by GC-MS)	ND	-	1000
Monobromobiphenyl	mg/kg		ND	5	-
Dibromobiphenyl	mg/kg		ND	5	-
Tribromobiphenyl	mg/kg		ND	5	-
Tetrabromobiphenyl	mg/kg		ND	5	-
Hexabromobiphenyl	mg/kg		ND	5	-
Pentabromobiphenyl	mg/kg		ND	5	-
Heptabromobiphenyl	mg/kg		ND	5	-
Octabromobiphenyl	mg/kg		ND	5	-
Nonabromobiphenyl	mg/kg		ND	5	-
Decabromobiphenyl	mg/kg		ND	5	-
<b>Sum of PBDEs</b>	mg/kg		ND	-	1000
Monobromodiphenyl ether	mg/kg		ND	5	-
Dibromodiphenyl ether	mg/kg		ND	5	-
Tribromodiphenyl ether	mg/kg		ND	5	-
Tetrabromodiphenyl ether	mg/kg		ND	5	-
Pentabromodiphenyl ether	mg/kg		ND	5	-
Hexabromodiphenyl ether	mg/kg		ND	5	-
Heptabromodiphenyl ether	mg/kg		ND	5	-
Octabromodiphenyl ether	mg/kg		ND	5	-
Nonabromodiphenyl ether	mg/kg	ND	5	-	
Decabromodiphenyl ether	mg/kg	ND	5	-	
<b>Conclusion</b>	/	/	PASS	/	/

**Sample Description:**

- GrafGuard

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

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**2. US California Proposition 65 – Phthalate Content**

Method: With reference to CPSC-CH-C1001-09.3. Analysis was performed by Gas Chromatography / Mass Spectrometry.

Phthalates	CAS No.	Result (ppm)	Detection Limit (ppm)	Reference Limit (ppm)
		1		
Dibutyl Phthalate (DBP)	84-74-2	ND	150	1000
Benzylbutyl Phthalate (BBP)	85-68-7	ND	150	1000
Bis-(2-ethylhexyl) Phthalate (DEHP)	117-81-7	ND	150	1000
Diisodecyl Phthalate (DIDP)	26761-40-0 / 68515-49-1	ND	150	1000
Di-n-hexyl Phthalate (DnHP)	84-75-3	ND	150	1000
Diisononyl Phthalate (DINP)	28553-12-0 / 68515-48-0	ND	150	1000
<b>Conclusion</b>	--	PASS	--	--

**Sample Description:**

1. GrafGuard

Note : 1. ppm = parts per million  
2. ND = Not Detected

Remark: The reference limit applied in testing is based on particular prop 65 settlements that are most similar to the tested product in the opinion of the lab. The testing in this report does not reflect a user's actual exposure to the tested chemical.  
A manufacturer or retailer that is not named in the referenced settlement is not bound by that settlement, and may choose to comply with Proposition 65 by clearly informing the consumer of potential exposure.

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**3. Halogen content (Cl, Br, I, F) of the submitted sample(s) with reference to BS EN 14582:2016:**

With reference to **BS EN 14582:2016** "Characterization of waste – Halogen and sulfur content – Oxygen Combustion in closed systems and determination methods". Analysis was performed by Ion Chromatography.

Test Items	Unit	Method Detection Limit	1
Halogen – <b>Chlorine</b> (Cl) CAS # 007782-50-5	mg/kg	50	<b>62.6</b>
Halogen – <b>Bromine</b> (Br) CAS # 007726-95-6	mg/kg	50	<b>ND</b>
Halogen – <b>Fluorine</b> (F) CAS # 007782-41-4	mg/kg	50	<b>245</b>
Halogen – <b>Iodine</b> (I) CAS # 007553-56-2	mg/kg	50	<b>ND</b>

Sample Description:

1. GrafGuard

Note: 1. mg/kg = ppm  
2. ND = Not Detected, reported when the reading is less than the detection limit value.

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**4. Antimony Content**

Method: With reference to US EPA Method 3050B followed by analysis using ICP-OES and/or ICP-MS.

Test Item	Result (mg/kg)	Detection Limit (mg/kg)
	1	
Antimony (Sb)	ND	2

**Sample Description:**

- GrafGuard

Note : 1. ND = Not Detected = denoted less than reporting limit

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**5. Annex XVII of REACH Regulation (EC) No. 1907/2006 and its amendments – Perfluorooctane sulfonates (PFOS) content (Formerly Directive 2006/122/EC)**

Test Method: With reference to CEN/TS 15968:2010. Analysis was performed by LC-MS.

Test Item	Result (%)	Detection Limit (%)	Permissible Limit (%)
	1		
Perfluorooctane sulfonates (PFOS)#	ND	0.001	0.005
<b>Comment</b>	PASS	--	--

Sample Description:

1. GrafGuard

Note : 1. % = percentage by weight

2. ND = Not Detected

3. # = Perfluorooctane sulfonates (PFOS) are represented by sum of PFOS – Acid, PFOS – Metal Salt and PFOS – Amide.

Remark: Recommended requirement with reference to commission regulation (EU) No. 757/2010 amending Regulation (EC) No 850/2004 (previously restricted under entry 53 of Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006)

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**6. Perfluorooctanoic Acid (PFOA) Content**

Test Method: With reference to CEN/TS 15968:2010. Analysis was performed by LC-MS / GC-MS.

Test Item	Result (%)	Detection Limit (%)
	1	
Perfluorooctanoic Acid (PFOA)	ND	0.001

**Sample Description:**

1. GrafGuard

Note : 1. % = percentage by weight

2. ND = Not Detected

3. + PFOA related substances refer to the sum of Perfluoro-1-iodooctane (PFOI) and 1H,1H,2H, 2H-Perfluoro-1-decanol (8:2 FTOH).

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**7. Beryllium Content**

Method: With reference to US EPA Method 3050B followed by analysis using ICP-OES and/or ICP-MS.

Test Item	Result (mg/kg)	Detection Limit (mg/kg)
	1	
Beryllium (Be)	ND	2

Sample Description:

1. GrafGuard

Note : 1. ND = Not Detected = denoted less than reporting limit

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**8. Directive (EU) 2015/863 of amending RoHS Directive 2011/65/EU**

Test Item(s):	Unit	Test Method	Results	MDL	Limit
			1		
Bis (2-ethylhexyl) Phthalate (DEHP)	mg/kg	IEC 62321-8:2017 (Determination of DEHP, BBP, DBP and DIBP by GC-MS)	ND	50	1000
Butyl benzyl Phthalate (BBP)	mg/kg		ND	50	1000
Dibutyl Phthalate (DBP)	mg/kg		ND	50	1000
Diisobutyl Phthalate (DIBP)	mg/kg		ND	50	1000
<b>Conclusion</b>	/	/	PASS	/	/

**Sample Description:**

- GrafGuard

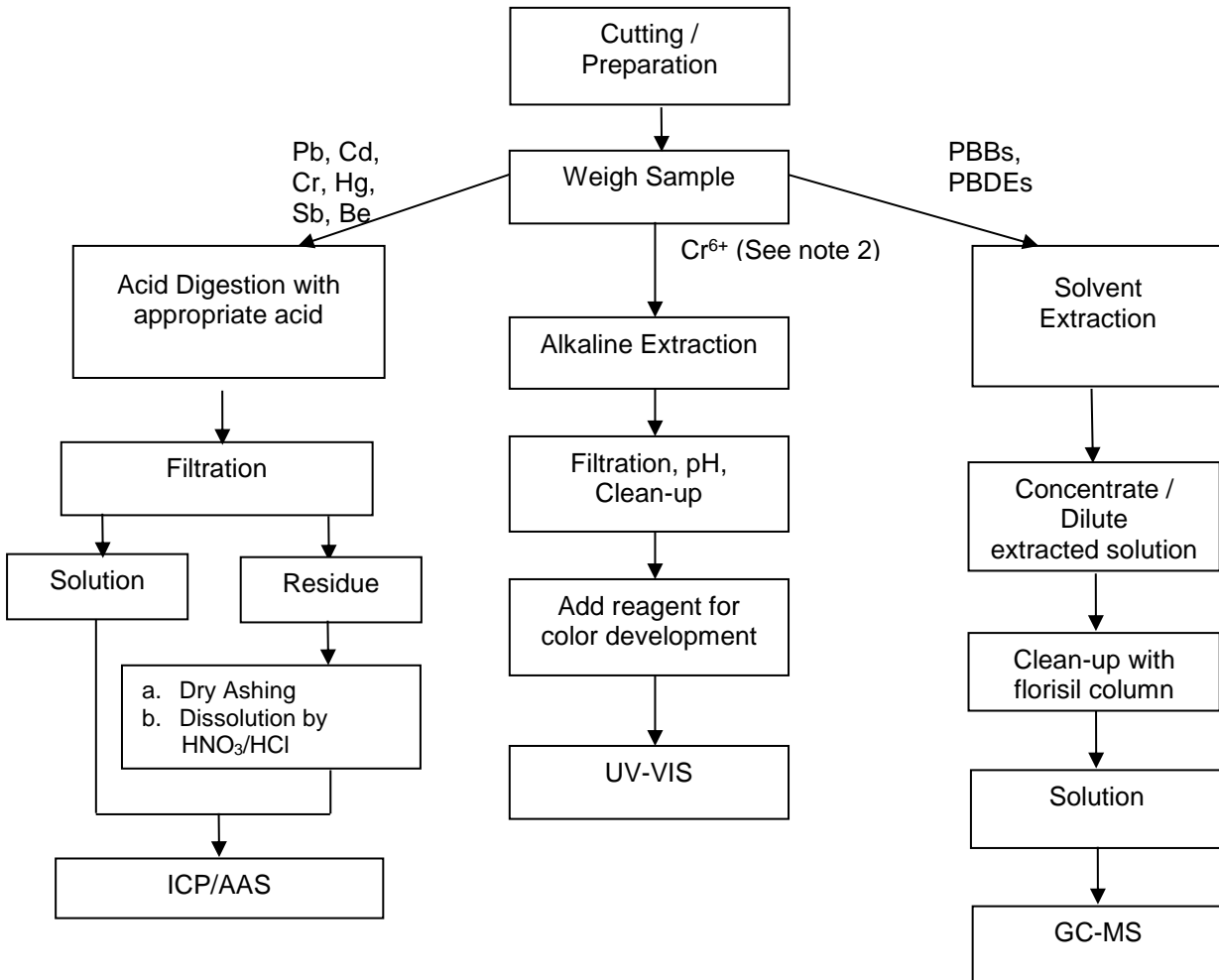
**Note :**

- mg/kg = ppm ; 0.1wt% = 1000ppm
- ND= not detected
- MDL = Method Detection Limit
- = not regulated
- IEC 62321 series is equivalent to EN 62321 series

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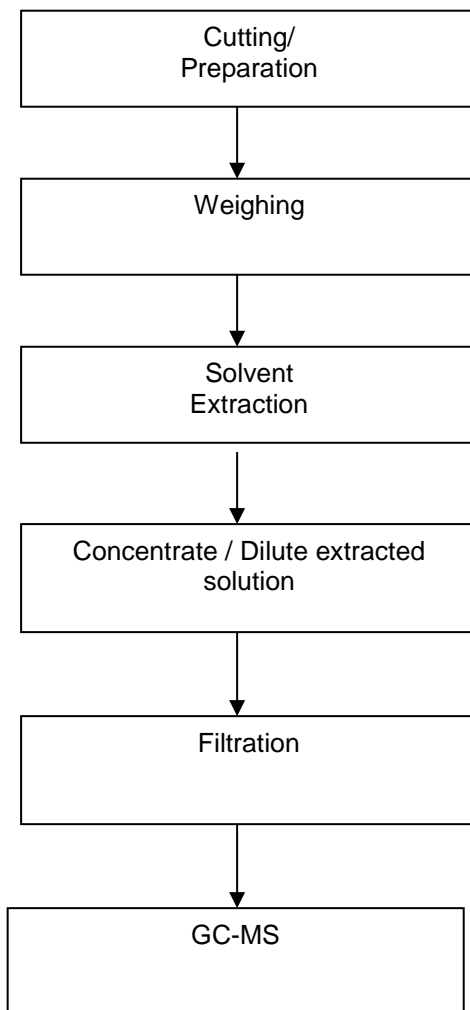
**Flowchart for RoHS, Beryllium and Antimony Testing:**



- Note
1. The Cd, Pb, Hg, Cr and Sb contents test on polymeric samples were dissolved totally by pre-conditioning method according to above flow chart.
  2. Cr<sup>6+</sup> is performed only when total Cr is detected

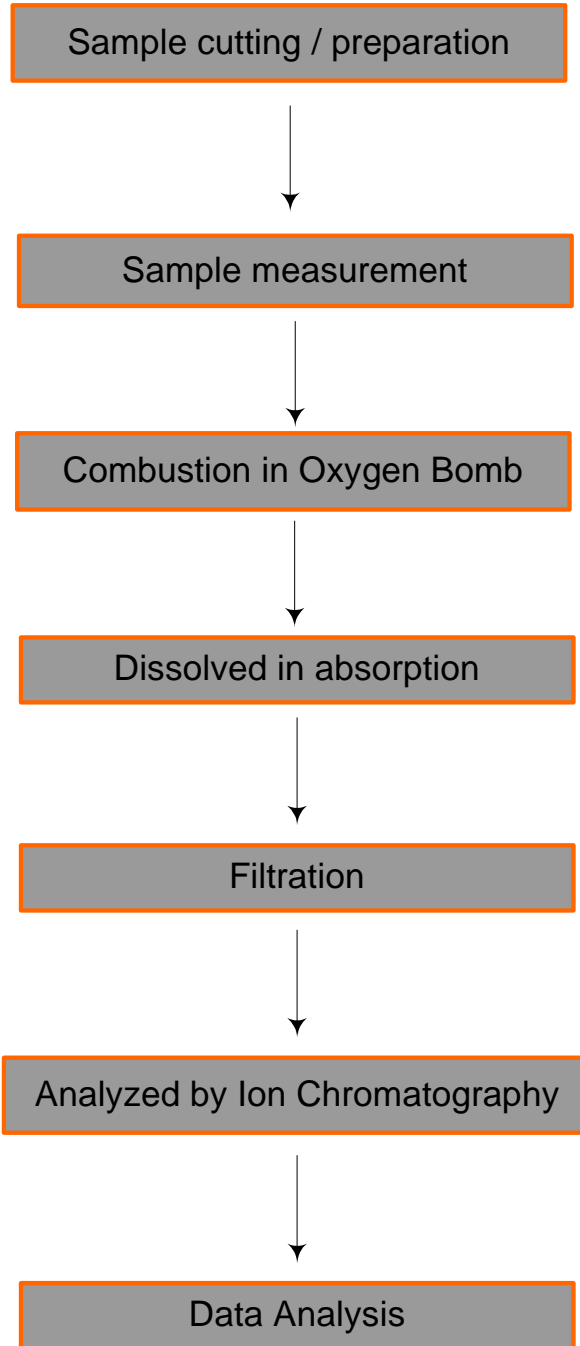
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Flowchart for Phthalates



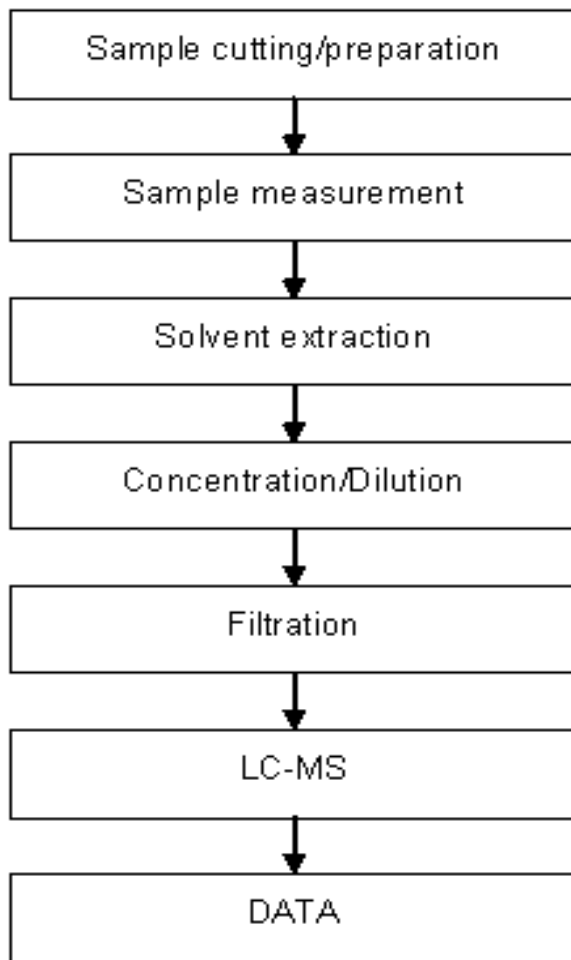
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**Halogen Testing Flow Chart**



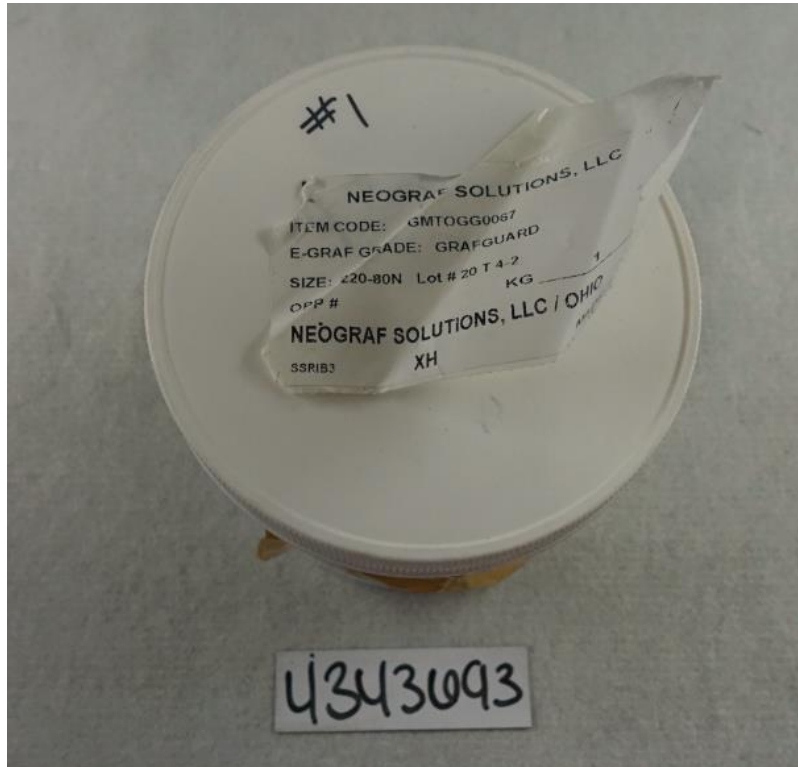
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PFOS/PFOA Testing Flow Chart



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**Sample Photo:**



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