

Test Report	No. 4669234-CH07	Date: September 15, 2020	Page 1 of 14
NeoGraf Solutions, LLC 11709 Madison Ave. Lakewood, OH 44107 United States			
The following sample(s) wa and identified by/on behalf		HITHERM™ 1200 Series	
Sample Received Date:		9/2/2020	
Testing Period:		9/3/2020 – 9/14/2020	
Test Requested :	Please refer to the re-	sult summary.	
Test Method & Results : Result Summary :	Please refer to next p	age(s).	
Result Summary .	Test Requested		Comment
	1. RoHS Directive	2011/65/EU Annex II	PASS
	2. Directive (EU) 20 RoHS Directive	15/863 of amending 2011/65/EU	PASS
	3. US California Pro Content	oposition 65 – Phthalate	PASS
	4. Halogen Conten- submitted samp EN 14582:2016	t (CI, Br, I, F) of the le(s) with reference to BS	See Test Results
	5. Antimony Conte	nt	See Test Results
	6. Beryllium Conte	nt	See Test Results
		EACH Regulation (EC) and its amendments –	

Perfluorooctane Sulfonates (PFOS)

Perfluorooctanoic Acid (PFOA) Content

Content (Formerly Directive

2006/122/EC)

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

8.

Prepared By:

Shaina Stobory

Shaina Gibbons Technical Report Writer, Chemistry Laboratory cryptal Melecia

PASS

See Test Results

Crystal Melecio Report Writer, Chemistry Laboratory

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1. RoHS Directive 2011/65/EU Annex II

Test Item(s):	Unit	Test Method	Results 1	MDL	Limit
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- 7-2:2017 (Determination of CrVI by UV-Vis)	ND*	8	1000
Sum of PBBs	mg/kg		ND	-	1000
Monobromobiphenyl	mg/kg		ND	5	-
Dibromobiphenyl	mg/kg		ND	5	-
Tribromobiphenyl	mg/kg		ND	5	-
Tetrabromobiphenyl	mg/kg		ND	5	-
Pentabromobiphenyl	mg/kg		ND	5	-
Hexabromobiphenyl	mg/kg		ND	5	-
Heptabromobiphenyl	mg/kg		ND	5	-
Octabromobiphenyl	mg/kg		ND	5	-
Nonabromobiphenyl	mg/kg	With reference to IEC 62321-	ND	5	-
Decabromobiphenyl	mg/kg	6:2015	ND	5	-
Sum of PBDEs	mg/kg	(Determination of PBB and	ND	-	1000
Monobromodiphenyl ether	mg/kg	PBDE by GC-MS)	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	-
Conclusion	/		PASS	/	/

Sample Description:

1. HITHERM[™] 1200 Series

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Test Report

Date: September 15, 2020

Note:

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

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

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

Toot Itom(o):	l Init	Test Method	Results	MDL	Limit
Test Item(s):	Unit	Test Method	1	WIDL	Linit
Bis (2-ethylhexyl) Phthalate (DEHP)	mg/kg	IEC 62321-8:2017	ND	50	1000
Butyl Benzyl Phthalate (BBP)	mg/kg	(Determination of DEHP, BBP,	ND	50	1000
Dibutyl Phthalate (DBP)	mg/kg	DBP and DIBP by GC-MS)	ND	50	1000
Diisobutyl Phthalate (DIBP)	mg/kg		ND	50	1000
Conclusion	/	/	PASS	/	/

Sample Description:

1. HITHERM[™] 1200 Series

Note:

- (a) mg/kg = ppm ; 0.1wt% = 1000ppm
- (b) ND= not detected
- (c) MDL = Method Detection Limit
- (d) = not regulated
- (e) IEC 62321 series is equivalent to EN 62321 series <u>http://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP_ORG_ID,FSP_LANG_ID:</u> <u>1258637,25</u>

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3. US California Proposition 65 – Phthalate Content

Test Method: With reference to CPSC-CH-C1001-09.4. Analysis was performed by GC-MS.

Phthalates	CAS No.	Result (ppm) 1	Detection Limit (ppm)	Reference Limit (ppm)
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
Conclusion		PASS		

Sample Description:

1. HITHERM[™] 1200 Series

- Note: 1. ppm = parts per million
 - 2. mg/kg = ppm
 - 3. 1% = 10000 ppm (mg/kg)
 - 4. 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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4. 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 – Chlorine (Cl) CAS # 007782-50-5	mg/kg	50	ND
Halogen – Bromine (Br) CAS # 007726-95-6	mg/kg	50	ND
Halogen – Fluorine (F) CAS # 007782-41-4	mg/kg	50	ND
Halogen – Iodine (I) CAS # 007553-56-2	mg/kg	50	ND

Sample Description:

- 1. HITHERM[™] 1200 Series
- Note: 1. mg/kg = milligram per kilogram
 - 2. ND = Not Detected, reported when the reading is less than the detection limit value.
 - 3. mg/kg = ppm

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5. Antimony Content

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

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

Sample Description:

1. HITHERM[™] 1200 Series

Note: 1. mg/kg = milligram per kilogram

2. ND = Not Detected, reported when the reading is less than the detection limit value.

3. mg/kg = ppm

6. Beryllium Content

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

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

Sample Description:

1. HITHERM[™] 1200 Series

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

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7. 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 (%) 1	Detection Limit (%)	Permissible Limit (%)
Perfluorooctane sulfonates (PFOS)#	ND	0.001	0.1
Comment	PASS		

Sample Description:

1. HITHERM[™] 1200 Series

- 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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8. 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	
restitem	1	Limit (%)	
Perfluorooctanoic Acid (PFOA)	ND	0.001	

Sample Description:

1. HITHERM[™] 1200 Series

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).

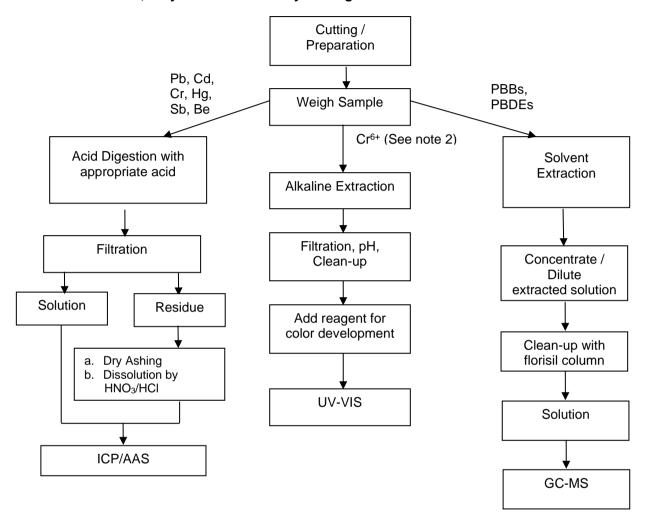
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Flowchart for RoHS, Beryllium and Antimony Testing:



- 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. Cr6+ is performed only when total Cr is detected

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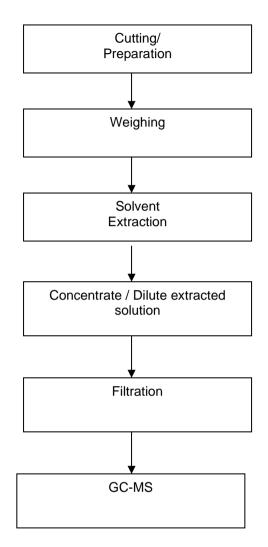


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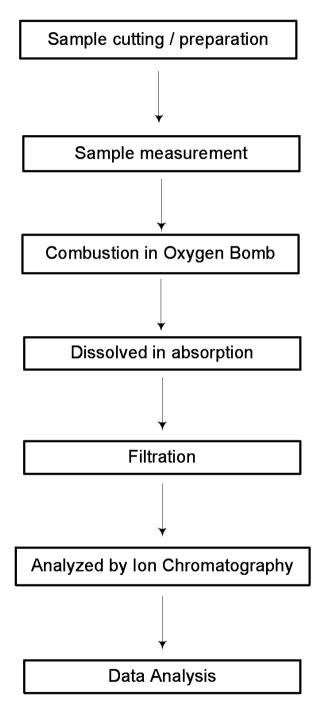
Flowchart for Phthalates



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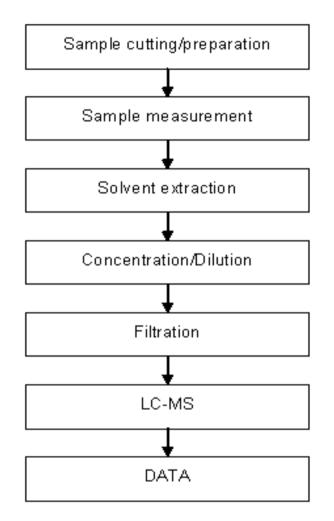
Halogen Testing Flow Chart



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PFOS/PFOA Testing Flow Chart



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