

Test Report	No. 4669234-CH05	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™ "P" Series	
Sample Received Date:		9/2/2020	
Testing Period:		9/3/2020 – 9/14/2020	
Test Requested :	Please refer to the res	sult summary.	
Test Method & Results : Result Summary :	Please refer to next p	age(s).	
Result Summary .	Test Requested		Comment
	1. RoHS Directive 2	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 Content 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 Stoborg

Shaina Gibbons Technical Report Writer, Chemistry Laboratory criptal Melecia

Crystal Melecio Report Writer, Chemistry Laboratory

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SGS North America Inc. Consumer Testing Services 291 Fairfield Ave, Fairfield, NJ 07004, USA t (973) 575-5252 f (973) 575-7175 www.sgs.com

PASS

See Test Results



Test Report No. 4669234-CH05

Date: September 15, 2020

Page 2 of 14

#### 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<sup>™</sup> "P" Series

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#### Test Report

Date: September 15, 2020

Note:

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

No. 4669234-CH05

- (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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## Test ReportNo. 4669234-CH05Date: September 15, 2020

Page 4 of 14

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

Toot Itom(o):	l lmi4	Test Method	Results	MDL	Limit
Test Item(s):	Unit	Test Method	1	WIDL	LIIIII
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™ "P" 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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### **Test Report** No. 4669234-CH05 Date: September 15, 2020

#### 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<sup>™</sup> "P" 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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## Test ReportNo. 4669234-CH05Date: September 15, 2020Page 6 of 14

#### 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 – <b>Chlorine</b> (Cl) CAS # 007782-50-5	mg/kg	50	ND
Halogen – <b>Bromine</b> (Br) CAS # 007726-95-6	mg/kg	50	ND
Halogen – <b>Fluorine</b> (F) CAS # 007782-41-4	mg/kg	50	ND
Halogen – <b>Iodine</b> (I) CAS # 007553-56-2	mg/kg	50	ND

#### Sample Description:

- 1. HITHERM<sup>™</sup> "P" 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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## Test ReportNo. 4669234-CH05Date: September 15, 2020Page 7 of 14

#### 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<sup>™</sup> "P" 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<sup>™</sup> "P" 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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## Test Report No. 4669234-CH05 Date: September 15, 2020 Page 8 of 14

# 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™ "P" 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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## Test ReportNo. 4669234-CH05Date: September 15, 2020

Page 9 of 14

#### 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<sup>™</sup> "P" Series

Note : 1. % = percentage by weight

2. ND = Not Detected

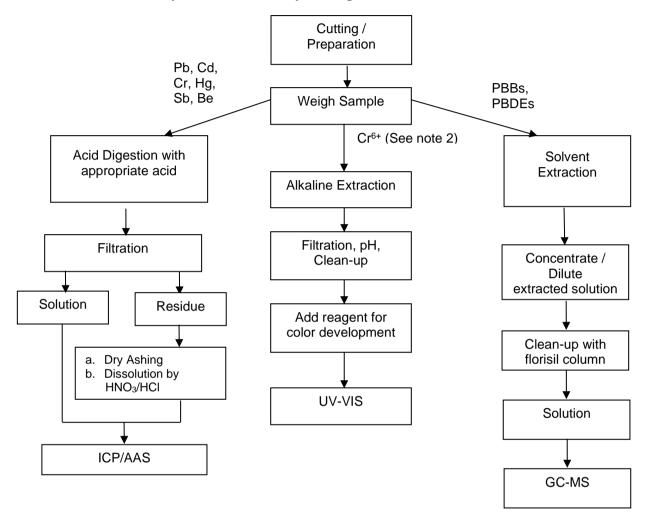
3. + PFOA related substances refer to the sum of Perfluoro-1-iodooctane (PFOI) and 1H,1H,2H, 2H-Perfluoro-1-decanol (8:2 FTOH).

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 Test Report
 No. 4669234-CH05

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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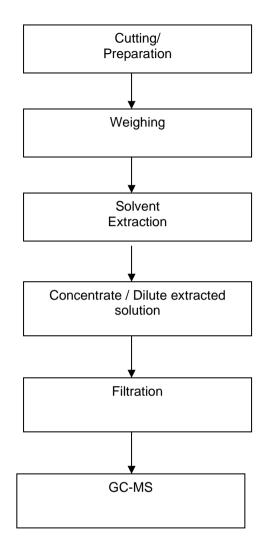


#### **Test Report** No. 4669234-CH05

Date: September 15, 2020

Page 11 of 14

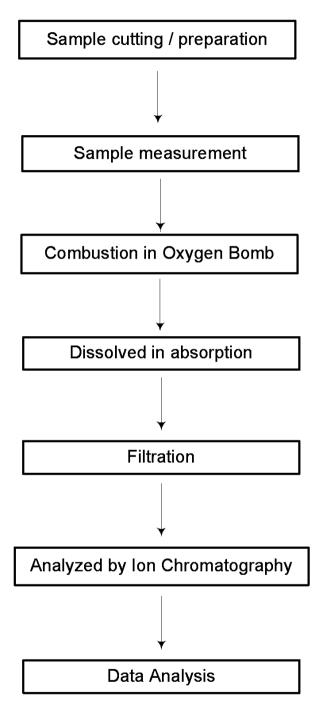
Flowchart for Phthalates



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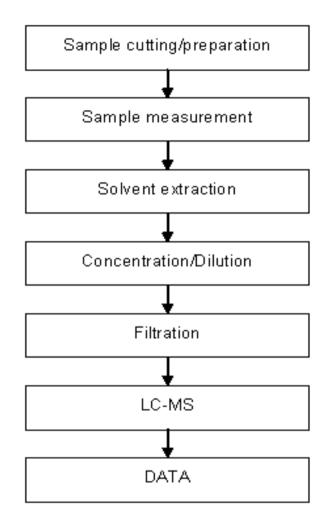
Halogen Testing Flow Chart



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**PFOS/PFOA Testing Flow Chart** 



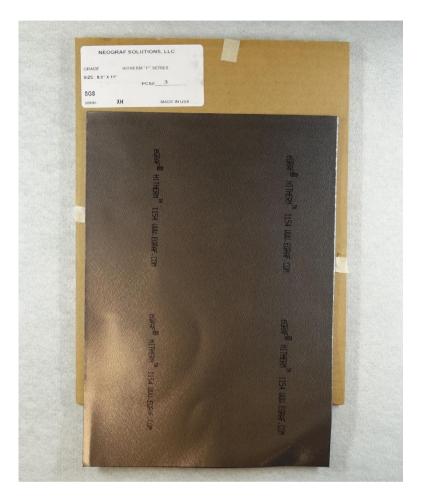
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## Test ReportNo. 4669234-CH05Date: September 15, 2020

Page 14 of 14

#### Sample Photo:



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\*\*\* End of Report \*\*\*

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