

Test Report No. TSNEC2100253011 Date: 04 Mar 2021 Page 1 of 15

TIANJIN LAIRD LTD.

C3&C4 BUILDING, HONGTAI INDUSTRY PARK, NO.87 TAIFENG ROAD, TEDA, TIANJIN, CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as : PHASE CHANGE THERMAL INTERFACE MATERIAL

SGS Job No.: TP21-000773 - TJ

Main Substance: CERAMIC+SYNTHETIC HYDROCARBON RESINS AND MATELLIC FILLERS

Model No.: TPCM 5000

Client Ref. Info.: Other Model No.:TPCM 5125, TPCM 5200, TPCM 5250, TPCM 5300, TPCM

5400, TPCM 5500

Date of Sample Received: 22 Feb 2021

Testing Period : 22 Feb 2021 - 04 Mar 2021

Test Requested: Selected test(s) as requested by client.

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

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

Conclusion: Based on the performed tests on submitted sample(s), the results of Lead,

Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs),

Polybrominated diphenyl ethers (PBDEs) and Phthalates such as

Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP), and Diisobutyl phthalate (DIBP) comply with the limits as set by

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

Signed for and on behalf of

SGS-CSTC Standards Technical Services (Tianjin) Co., Ltd.

Reabeca Zhou

Approved Signatory





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Test Report No. TSNEC2100253011 Date: 04 Mar 2021 Page 2 of 15

Test Results:

Test Part Description:

Specimen No. SGS Sample ID Description TSN21-002530.006 SN₁ gray sheet

Remarks:

(1) 1 mg/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: With reference to IEC 62321-5:2013, IEC 62321-4:2013+AMD1:2017, IEC 62321-7-2:2017, IEC 62321-6:2015 and IEC 62321-8:2017, analyzed by ICP-OES, UV-Vis and GC-MS.

Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>006</u>
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1000	mg/kg	2	ND
Mercury (Hg)	1000	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))	1000	mg/kg	8	ND
Sum of PBBs	1000	mg/kg	-	ND
Monobromobiphenyl	-	mg/kg	5	ND
Dibromobiphenyl	-	mg/kg	5	ND
Tribromobiphenyl	-	mg/kg	5	ND
Tetrabromobiphenyl	-	mg/kg	5	ND
Pentabromobiphenyl	-	mg/kg	5	ND
Hexabromobiphenyl	-	mg/kg	5	ND
Heptabromobiphenyl	-	mg/kg	5	ND
Octabromobiphenyl	-	mg/kg	5	ND
Nonabromobiphenyl	-	mg/kg	5	ND
Decabromobiphenyl	-	mg/kg	5	ND
Sum of PBDEs	1000	mg/kg	-	ND
Monobromodiphenyl ether	-	mg/kg	5	ND
Dibromodiphenyl ether	-	mg/kg	5	ND
Tribromodiphenyl ether	-	mg/kg	5	ND
Tetrabromodiphenyl ether	-	mg/kg	5	ND



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Test Report	No. TSNEC21002530	011	Date:	04 Mar 2021	Page 3 of 15
Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>006</u>	
Pentabromodiphenyl ether	-	mg/kg	5	ND	
Hexabromodiphenyl ether	-	mg/kg	5	ND	
Heptabromodiphenyl ether	-	mg/kg	5	ND	
Octabromodiphenyl ether	-	mg/kg	5	ND	
Nonabromodiphenyl ether	-	mg/kg	5	ND	
Decabromodiphenyl ether	-	mg/kg	5	ND	
Dibutyl phthalate (DBP)	1000	mg/kg	50	ND	
Butyl benzyl phthalate (BBP)	1000	mg/kg	50	ND	
Bis (2-ethylhexyl) phthalate (DEHP)	1000	mg/kg	50	ND	
Diisobutyl Phthalates (DIBP)	1000	mg/kg	50	ND	

Notes:

(1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863. IEC 62321 series is equivalent to EN 62321 series https://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP_ORG_ID,FSP_LANG_ID:12586

(2) The restriction of DEHP, BBP, DBP and DIBP shall apply to medical devices, including in vitro medical devices, and monitoring and control instruments, including industrial monitoring and control instruments, from 22 July 2021.

Halogen

Test Method: With reference to EN 14582: 2016, analysis was performed by Ion Chromatograph (IC).

Test Item(s)	<u>Unit</u>	<u>MDL</u>	<u>006</u>
Fluorine (F)	mg/kg	50	ND
Chlorine (CI)	mg/kg	50	ND
Bromine (Br)	mg/kg	50	ND
lodine (I)	mg/kg	50	ND

Element(s)

Test Method: SGS in house method -TJChemLab-TOP-004-2 (With reference to US EPA 3052:1996 、 US EPA

3051A:2007 US EPA 6010C:2007), analyzed by ICP-OES.

Test Item(s)	<u>Unit</u>	<u>MDL</u>	<u>006</u>
Antimony (Sb)	mg/kg	10	ND



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Test Report No. TSNEC2100253011 Date: 04 Mar 2021 Page 4 of 15

Elementary analysis

SGS In-house method (GZTC CHEM-TOP-111-02, with reference to US Method Test Method:

EPA3052:1996), analysis was performed by ICP-OES.

Test Item(s) *006* <u>Unit</u> <u>MDL</u> Sulfur(S) mg/kg 10 ND

Notes:

(1) The test was subcontracted to SGS Guangzhou chemical lab.

Red Phosphorus

SGS in house method(SHTC- CHEM- SOP -342-T), Analysis was performed by ICP-OES and Test Method:

Pyrolysis-GC/MS

Test Item(s) **Unit MDL** *006* Red Phosphorus mg/kg 500 ND

Notes:

(1) For Positive result, the testing result is based on the worst-case scenario, and confirmed by Pyrolysis-GC-MS

(2) The test was subcontracted to SGS Shanghai chemical lab.

Hexabromocyclododecane (HBCDD)

Test Method: SGS in house method-TJChemLab-TOP-059 (With reference to US EPA 3550C:2007 、 US EPA

8270D:2014), analyzed by GC-MS.

Test Item(s) Unit MDL 006 ND Hexabromocyclododecane (HBCDD) mg/kg 10

Phthalates

Test Method: With reference to IEC 62321-8:2017, determination of phthalates by GC-MS.



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Test Report	No. TSNEC210025301	1 [Date: 04 Mar 2021		Page 5 of 15	
Test Item(s)		CAS NO	<u>. Unit</u>	MDL	<u>006</u>	
Diisononyl Phthalate (DINP)		28553-12-0 68515-48-0	,	0.005	ND	
Di-n-octyl Phthalate (DNOP)		117-84-0	% (w/w)	0.005	ND	
Diisodecyl Phthalate (DIDP)		26761-40-0 68515-49-	,	0.005	ND	
Dimethyl Phthalate (DMP)		131-11-3	% (w/w)	0.005	ND	
Diethyl Phthalate (DEP)		84-66-2	% (w/w)	0.005	ND	
Diisooctyl Phthalate (DIOP)		27554-26-3	% (w/w)	0.005	ND	
Bis(2-methoxyethyl) Phthalate (DME	P)	117-82-8	% (w/w)	0.005	ND	
Diisopentyl Phthalate (DIPP)		605-50-5	% (w/w)	0.005	ND	
n-pentyl Isopentyl phthalate (nPIPP)		776297-69-9	9 % (w/w)	0.005	ND	
Di-n-hexyl Phthalate (DnHP)		84-75-3	% (w/w)	0.005	ND	
1,2-Benzenedicarboxylic acid, di-C7-linear alkyl esters (DHNUP)	11-branched and	68515-42-4	% (w/w)	0.005	ND	
1,2-Benzenedicarboxylic acid, di-C6-esters, C7-rich (DIHpP)	8-branched alkyl	71888-89-6	% (w/w)	0.005	ND	
1,2-Benzenedicarboxylic acid, dipent linear (DPP)	ylester, branched and	84777-06-0	% (w/w)	0.005	ND	
Di-n-pentyl Phthalate (DnPP)		131-18-0	% (w/w)	0.005	ND	
1,2-Benzenedicarboxylic acid, dihexylinear (DHP)	/l ester, branched and	68515-50-4	% (w/w)	0.005	ND	
Dicyclohexyl Phthalate (DCHP)		84-61-7	% (w/w)	0.005	ND	
Diisohexyl phthalate (DIHP)		71850-09-4	% (w/w)	0.005	ND	

Perfluorooctane Sulfonates (PFOS) and its derivatives and Perfluorooctanoic Acid (PFOA) and its salts

Test Method: With reference to CEN/TS 15968:2010, analysis was performed by LC/MSMS.

Test Item(s)	CAS NO.	<u>Unit</u>	<u>MDL</u>	<u>006</u>
Perfluorooctane Sulfonates (PFOS) and its derivatives		mg/kg	-	ND
Perfluorooctane Sulfonates (PFOS) ^	1763-23-1	mg/kg	0.01	ND
N-ethylperfluoro-1-octanesulfonamide (EtFOSA)	4151-50-2	mg/kg	0.01	ND
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	mg/kg	0.01	ND
2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol (EtFOSE)	1691-99-2	mg/kg	0.01	ND
2-(N-methylperfluoro-1-octanesulfonamido)-ethanol (MeFOSE)	24448-09-7	mg/kg	0.01	ND
Perfluorooctane sulfonamide (PFOSA)	754-91-6	mg/kg	0.01	ND
Perfluorooctanoic Acid (PFOA) and its salts+		mg/kg	0.01	ND



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No. TSNEC2100253011

Page 6 of 15

Date: 04 Mar 2021

Notes:

(1) ^ PFOS refer to its derivatives including PFOS-K (CAS No.: 2795-39-3), PFOS-Li (CAS No.: 29457-72-5), PFOS-NH₄ (CAS No.: 29081-56-9), PFOS-NH(OH)₂ (CAS No.: 70225-14-8), PFOS-N(C_2H_5)₄ (CAS No.: 56773-42-3), PFOS-DDA(CAS No.:251099-16-8) and POSF (CAS No.: 307-35-7)

(2) + PFOA refer to its salts including PFOA-Na (CAS No.: 335-95-5), PFOA-K (CAS No.: 2395-00-8), PFOA-Ag (CAS No.: 335-93-3), PFOA-F (CAS No.: 335-66-0) and APFO (CAS No.: 3825-26-1).



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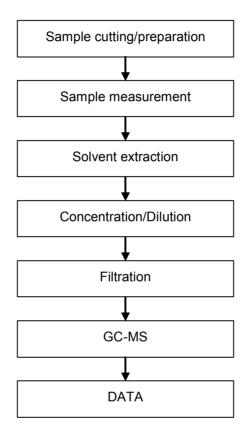


No. TSNEC2100253011

Page 7 of 15

Date: 04 Mar 2021

HBCDD Testing Flow Chart





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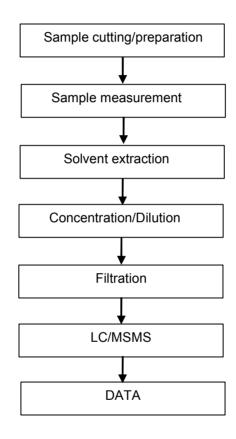
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Page 8 of 15

Date: 04 Mar 2021

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PFOS/PFOA Testing Flow Chart





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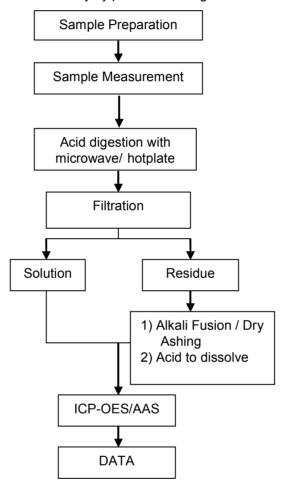
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Page 9 of 15

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Elements (IEC62321) Testing Flow Chart

1) These samples were dissolved totally by pre-conditioning method according to below flow chart.





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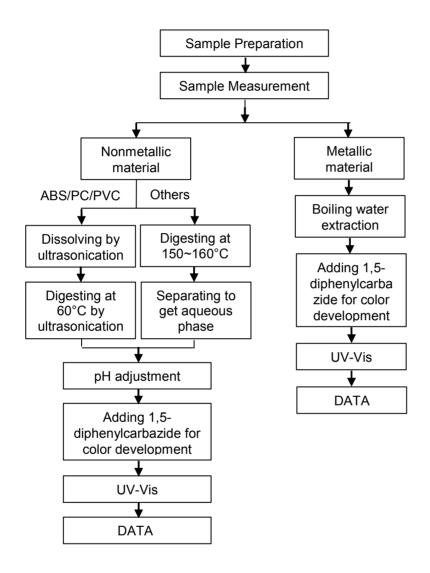
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Page 10 of 15

Date: 04 Mar 2021

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Hexavalent Chromium (Cr(VI)) Testing Flow Chart





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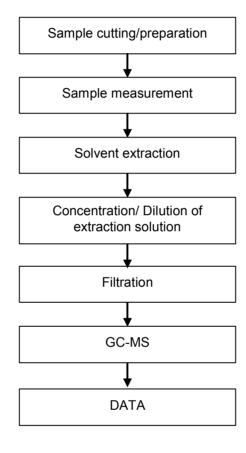
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No. TSNEC2100253011

Date: 04 Mar 2021 Page 11 of 15

Flame Retardants Testing Flow Chart





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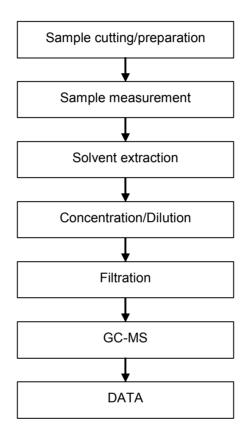
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Date: 04 Mar 2021 Page 12 of 15

Phthalates Testing Flow Chart





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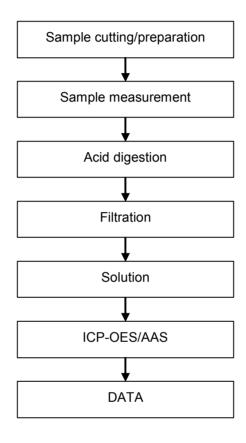
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No. TSNEC2100253011

Date: 04 Mar 2021 Page 13 of 15

Elements Testing Flow Chart





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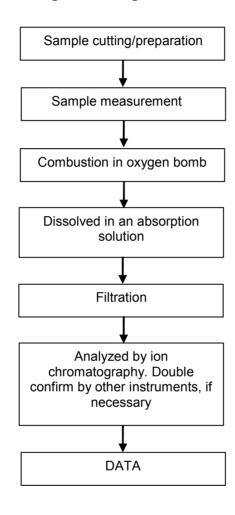
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Page 14 of 15

Date: 04 Mar 2021

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Halogen Testing Flow Chart





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No. TSNEC2100253011

Page 15 of 15

Date: 04 Mar 2021

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