

## Test Report

Testing institute : Product Technology Service (Ningbo) Co., Ltd.  
5-7F, 59#, Huayu Road, Yinzhou District, Ningbo 315192 P.R.China

Applicant : Suzhou Kyng Industrial Materials Co.,Ltd  
22Floor,Kings Tower,No.12, Shishan Road,SuZhou CHINA (215011),China.  
Suzhou Kymler Industrial Materials Co.,Ltd  
No.3 Building,Guangcheng Industrial Park,Mudu, Suzhou(215156),China.

Product name : Polyimide Adhesive Tape With Silicone Resin

Sample Description : KY6250SG,KY6250RL,KY6250-B

Model No. : Amber

Material : Polyimide+Silicone Resin

Sample receive date : Apr.03,2019  
Completes date : Apr.11,2019

Testing location : Product Technology Service (Ningbo) Co., Ltd.

Test specification(s) : As specified by client, to screen the 197 Substances of Very High Concern (SVHC) under Regulation(EC) No 1907/2006 of REACH in the submitted sample(s).

Result Summary : According to the analytical results, concentrations of 197 SVHC substances are all less than 0.1% in the submitted sample(s).



Originator:  
Danyan Wang



Report Verifier:  
Jifei Xu



Authorizer:  
Meng Wei

Product Technology Service (Ningbo) Co., Ltd.



The test results exclusively refer to the samples examined. The test report is only used for scientific research, teaching or internal quality control. This report shall not be reproduced except in full without written approval and does not authorize the use of Product Technology Service (Ningbo) Co., Ltd. label. The report is invalid without signature and seal of Product Technology Service (Ningbo) Co., Ltd.

**Remark :**

- (1) The chemical analysis of specified SVHC is performed by means of currently available analytical techniques against the following SVHC related documents published by ECHA:  
<https://echa.europa.eu/web/guest/candidate-list-table>
- (2) In accordance with Regulation (EC) No 1907/2006, any EU producer or importer of articles shall notify ECHA, in accordance with paragraph 4 of Article 7, if a substance meets the criteria in Article 57 and is identified in accordance with Article 59(1) of the Regulation, if (a) the substance in the Candidate List is present in those articles in quantities totaling over one tonne per producer or importer per year; and (b) the substance in the Candidate List is present in those articles above a concentration of 0.1% weight by weight (w/w).
- (3) From 28 October 2008, EU & EEA suppliers of articles which contain substances on the Candidate List in a concentration above 0.1% (w/w) must provide sufficient information, available to them, to their customers and on request to a consumer within 45 days of the receipt of this request. This information must ensure safe use of the article and, as a minimum, include the name of the substance.

## Test result(s)

Product name: Polyimide Adhesive Tape With Silicone Resin				
The first 15 items list:	CAS No.	Method	Detection Limit(%)	Result (%)
Anthracene #	120-12-7	AfPS GS 2014:01 PAK	0.005	ND
4,4'-Diaminodiphenylmethane#	101-77-9	EN 14362-1	0.005	ND
Dibutyl phthalate (DBP) #	84-74-2	EPA 3540C	0.005	ND
5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene) #	81-15-2	EPA 3550C	0.005	ND
Bis (2-ethyl(hexyl)phthalate) (DEHP) #	117-81-7	EPA 3540C	0.005	ND
Hexabromocyclododecane (HBCDD, $\alpha,\beta,\gamma$ ) and all major diastereoisomers identified#	25637-99-4 3194-55-6	EPA 3540C	0.005	ND
Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins) #	85535-84-8	EPA 3540C	0.005	ND
Benzyl butyl phthalate (BBP) #	85-68-7	EPA 3540C	0.005	ND
Bis(tributyltin)oxide #	56-35-9	BS ISO 17353	0.005	ND
Cobalt dichloride *	7646-79-9	EPA 3052 EN 14582	0.01	ND
Diarsenic pentaoxide *	1303-28-2	EPA 3052	0.01	ND
Diarsenic trioxide *	1327-53-3	EPA 3052	0.01	ND
Triethyl arsenate *	15606-95-8	EPA 3052	0.01	ND
Lead hydrogen arsenate *	7784-40-9	EPA 3052	0.01	ND
Sodium dichromate, dihydrate *	7789-12-0 10588-01-9	EPA 3060A	0.01	ND

The Second 13 items list:	CAS No.	Method	Detection Limit(%)	Result (%)
Anthracene oil***	90640-80-5	In-house method, Analysis by using GC-MS	0.05	ND
Anthracene oil,anthracene paste, distn.Lights**	91995-17-4		0.05	ND
Anthracene oil, anthracene paste, anthracene fraction ***	91995-15-2		0.05	ND
Anthracene oil, anthracene-low ***	90640-82-7		0.05	ND
Anthracene oil, anthracene paste ***	90640-81-6		0.05	ND
Pitch, coal tar, high temp. ***	65996-93-2		0.05	ND
Acrylamide#	79-06-1	EPA 3540C	0.01	ND
2,4-Dinitrotoluene (DNT) #	121-14-2	EPA 3540C	0.01	ND
Diisobutyl phthalate (DIBP) #	84-69-5	EPA 3540C	0.005	ND
Tris(2-chloroethyl)phosphate(TCEP) #	115-96-8	EPA 3540C	0.01	ND
Lead chromate *	7758-97-6	In house method, Analysis by ICP- OES,UV-Vis	0.01	ND
Lead chromate molybdate sulphate red (C.I. Pigment Red 104) *	12656-85-8		0.01	ND
Lead sulfochromate yellow (C.I. Pigment Yellow 34) *	1344-37-2		0.01	ND

The Third 8 items list:	CAS No.	Method	Detection Limit(%)	Result (%)
Boric acid*	10043-35-3 11113-50- 1	EPA 3052	0.05	ND

Disodium tetraborate anhydrous*	1330-43-4 12179-04-3 1303-96-4	EPA 3052	0.05	ND
Tetraboron disodium heptaoxide hydrate *	12267-73-1	EPA 3052	0.05	ND
Sodium chromate*	7775-11-3	EPA 3052	0.05	ND
Potassium chromate*	7789-00-6	EPA 3052	0.05	ND
Ammonium dichromate*	7789-09-5	EPA 3052/3060A- 7196A	0.05	ND
Potassium dichromate*	7778-50-9	EPA 3052/3060A- 7196A	0.05	ND
Trichloroethylene#	79-01-6	EPA 3540C	0.01	ND

The Fourth 8 items list:	CAS No.	Method	Detection Limit(%)	Result (%)
Cobalt(II) sulphate*	10124-43-3	EPA 3052	0.05	ND
Cobalt(II) dinitrate*	10141-05-6	EPA 3052	0.05	ND
Cobalt(II) carbonate*	513-79-1	EPA 3052	0.05	ND
Cobalt(II) diacetate*	71-48-7	EPA 3052	0.05	ND
Chromium trioxide*	1333-82-0	EPA 3052/3060A- 7196A	0.05	ND
Acids generated from chromium trioxide and their oligomers: Chromic acid Dichromic acid Oligomers of chromic acid and dichromic acid*	7738-94-5 13530-68-2	EPA 3052/3060A- 7196A	0.05	ND
2-Methoxyethanol#	109-86-4	EPA 3540C	0.05	ND
2-Ethoxyethanol#	110-80-5	EPA 3540C	0.05	ND

The Fifth 7 items list:	CAS No.	Method	Detection Limit(%)	Result (%)
Strontium chromate*	7789-06-2	EPA 3052C	0.05	ND
2-Ethoxyethyl acetate#	111-15-9	EPA 3540C	0.05	ND
1,2-benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters#	68515-42-4	EPA 3540C	0.05	ND
Hydrazine#	7803-57-8 302-01-2	EPA 5021	0.05	ND
1-methyl-2-pyrrolidone#	872-50-4	EPA 3540C	0.05	ND
1,2,3-trichloropropane#	96-18-4	EPA 3540C	0.05	ND
1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich#	71888-89-6	EPA 3540C	0.05	ND

The sixth 20 items list:	CAS No.	Method	Detection Limit(%)	Result (%)
Dichromium tris(chromate) *	24613-89-6	EPA 3052	0.05	ND
Potassium hydroxyoctaoxodizincatedichromate*	11103-86-9	EPA 3052	0.05	ND
Pentazinc chromate octahydroxide*	49663-84-5	EPA 3052	0.05	ND
Zirconia Aluminosilicate Refractory Ceramic Fibres (Zr-RCF) ***	Index number: 650-017-00-8	In house method, Analysis by ICP-OES or FTIR	0.05	ND

Aluminosilicate Refractory Ceramic Fibres (RCF) ***	Index number: 650-017-00-8	In house method, Analysis by ICP-OES or FTIR	0.05	ND
Arsenic acid *	7778-39-4	EPA 3052	0.05	ND
Trilead diarsenate *	3687-31-8	EPA 3052	0.05	ND
Lead diazide *	13424-46-9	EPA 3052	0.05	ND
Lead styphnate *	15245-44-0	EPA 3052	0.05	ND
Lead dipicrate*	6477-64-1	EPA 3052	0.05	ND
Calcium arsenate *	7778-44-1	EPA 3052	0.05	ND
Formaldehyde, oligomeric reaction products with aniline (technical MDA) #	25214-70-4	In-house method, Analysis by using GC-MS	0.05	ND
Bis(2-methoxyethyl) phthalate#	117-82-8	In-house method, Analysis by using GC-MS	0.05	ND
2-Methoxyaniline o-Anisidine#	90-04-0	In-house method, Analysis by using GC-MS	0.05	ND
4-(1,1,3,3-tetramethylbutyl)phenol, (4-tert-Octylphenol) #	140-66-9	In-house method, Analysis by using GC-MS	0.05	ND
1,2-Dichloroethane#	107-06-2	In-house method, Analysis by using GC-MS	0.05	ND
N,N-dimethylacetamide (DMAC) #	127-19-5	In-house method, Analysis by using GC-MS	0.05	ND
Phenolphthalein#	77-09-8	In-house method, Analysis by using LC-DAD/MS	0.05	ND
2,2'-dichloro-4,4'-methylenedianiline (MOCA) #	101-14-4	In-house method, Analysis by using LC-DAD/MS	0.05	ND
Bis(2-methoxyethyl) ether#	111-96-6	In-house method, Analysis by using GC-MS	0.05	ND

<b>The seventh 13 items list:</b>	<b>CAS No.</b>	<b>Method</b>	<b>Detection Limit(%)</b>	<b>Result (%)</b>
1,2-bis(2-methoxyethoxy)ethane#	112-49-2	In-house method, Analysis by using GC-MS	0.05	ND
1,2-dimethoxyethane; ethylene glycol dimethyl ether#	110-71-4	In-house method, Analysis by using GC-MS	0.05	ND
Diboron trioxide *	1303-86-2	EPA 3052	0.05	ND
Formamide#	75-12-7	In-house method, Analysis by using GC-MS	0.01	ND
Lead(II) bis(methanesulfonate) *	17570-76-2	EPA 3052	0.05	ND

1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC)	2451-62-9	In-house method, Analysis by using LC-DAD/MS	0.05	ND
1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione ( $\beta$ -TGIC) <sup>#</sup>	59653-74-6	In-house method, Analysis by using LC-DAD/MS	0.05	ND
4,4'-bis(dimethylamino)benzophenone <sup>#</sup>	90-94-8	In-house method, Analysis by using LC-DAD/MS	0.05	ND
N,N,N',N'-tetramethyl-4,4'-methylenedianiline <sup>#</sup>	101-61-1	In-house method, Analysis by using LC-DAD/MS	0.05	ND
[4-[4,4'-bis(dimethylamino)benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3) <sup>#</sup>	548-62-9	In-house method, Analysis by using LC-DAD/MS	0.05	ND
[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Blue 26) <sup>#</sup>	2580-56-5	In-house method, Analysis by using LC-DAD/MS	0.05	ND
$\alpha,\alpha$ -Bis[4-(dimethylamino)phenyl]-4(phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) <sup>#</sup>	6786-83-0	In-house method, Analysis by using LC-DAD/MS	0.05	ND
4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol <sup>#</sup>	561-41-1	In-house method, Analysis by using LC-DAD/MS	0.05	ND

The eighth 54 items list:	CAS No.	Method	Detection Limit(%)	Result (%)
Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE) <sup>#</sup>	1163-19-5	IEC62321	0.005	ND
Pentacosafuorotridecanoic acid <sup>#</sup>	72629-94-8	In-house method, Analysis by using GC-MS	0.05	ND
Tricosafuorododecanoic acid <sup>#</sup>	307-55-1	In-house method, Analysis by using GC-MS	0.05	ND
Henicosafuoroundecanoic acid <sup>#</sup>	2058-94-8	In-house method, Analysis by using GC-MS	0.05	ND
Heptacosafuorotetradecanoic acid <sup>#</sup>	376-06-7	In-house method, Analysis by using GC-MS	0.05	ND
4-Nonylphenol, branched and linear [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof] <sup>#</sup>	-	In-house method, Analysis by using GC-MS	0.05	ND

4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated [covering well-defined substances and UVCB substances, polymers and homologues]#	-	EPA 3540C	0.005	ND
Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))#	123-77-3	In house method, Analysis by using LC-DAD/MS	0.05	ND
Cyclohexane-1,2-dicarboxylic anhydride [1], cis-cyclohexane-1,2-dicarboxylic anhydride [2], trans-cyclohexane-1,2-dicarboxylic anhydride [3] [The individual cis- [2] and trans- [3] isomer substances and all possible combinations of the cis- and trans-isomers [1] are covered by this entry]#	85-42-7 13149-00-3 14166-21-3	In house method, Analysis by using GC-MS	0.05	ND
Hexahydromethylphthalic anhydride [1], Hexahydro-4-methylphthalic anhydride [2], Hexahydro-1-methylphthalic anhydride [3], Hexahydro-3-methylphthalic anhydride [4] [The individual isomers [2], [3] and [4] (including their cis- and trans-stereo isomeric forms) and all possible combinations of the isomers [1] are covered by this entry]#	25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9	In house method, Analysis by using GC-MS	0.05	ND
Methoxyacetic acid#	625-45-6	In house method, Analysis by using GC-MS	0.05	ND
1,2-Benzenedicarboxylic acid, dipentylester, branched and linear#	84777-06-0	EPA 3540C	0.005	ND
Diisopentylphthalate#	605-50-5	EPA 3540C	0.005	ND
N-pentyl-isopentylphthalate#	776297-69-9	EPA 3540C	0.005	ND
1,2-Diethoxyethane#	629-14-1	EPA 3540C	0.005	ND
N,N-dimethylformamide#	68-12-2	In house method, Analysis by using GC-MS	0.05	ND
Dibutyltin dichloride (DBTC)#	683-18-1	In house method, Analysis by using GC-MS	0.05	ND
Acetic acid, lead salt, basic*	51404-69-4	EPA 3052	0.05	ND
Trilead bis(carbonate)dihydroxide*	1319-46-6	EPA 3052	0.05	ND
Lead oxide sulfate*	12036-76-9	EPA 3052	0.05	ND
[Phthalato(2-)]dioxotrilead*	69011-06-9	EPA 3052	0.05	ND
Dioxobis(stearato)trilead*	12578-12-0	EPA 3052	0.05	ND
Fatty acids, C16-18, lead salts*	91031-62-8	EPA 3052	0.05	ND
Lead bis(tetrafluoroborate) *	13814-96-5	EPA 3052	0.05	ND
Lead cyanamidate*	20837-86-9	EPA 3052	0.05	ND
Lead dinitrate*	10099-74-8	EPA 3052	0.05	ND
Lead monoxide (lead oxide) *	1317-36-8	EPA 3052	0.05	ND
Orange lead (lead tetroxide) *	1314-41-6	EPA 3052	0.05	ND
Lead titanium trioxide*	12060-00-3	EPA 3052	0.05	ND



Lead titanium zirconium oxide*	12626-81-2	EPA 3052	0.05	ND
Pentalead tetraoxide sulphate*	12065-90-6	EPA 3052	0.05	ND
Pyrochlore, antimony lead yellow*	8012-00-8	EPA 3052	0.05	ND
Silicic acid (H <sub>2</sub> Si <sub>2</sub> O <sub>5</sub> ), barium salt (1:1), lead-doped [with lead (Pb) content above the applicable generic concentration limit for 'toxicity for reproduction' Repr. 1A (CLP) or category 1 (DSD); the substance is a member of the group entry of lead compounds, with index number 082-001-00-6 in Regulation (EC) No 1272/2008] *	68784-75-8	EPA 3052	0.05	ND
Silicic acid, lead salt*	11120-22-2	EPA 3052	0.05	ND
Sulfurous acid, lead salt, dibasic*	62229-08-7	EPA 3052	0.05	ND
Tetraethyllead*	78-00-2	EPA 3052	0.05	ND
Tetralead trioxide sulphate*	12202-17-4	EPA 3052	0.05	ND
Trilead dioxide phosphonate*	12141-20-7	EPA 3052	0.05	ND
Furan#	110-00-9	In house method, Analysis by using GC-MS	0.05	ND
Methyloxirane (Propylene oxide) #	75-56-9	In house method, Analysis by using GC-MS	0.05	ND
Diethyl sulphate#	64-67-5	In house method, Analysis by using GC-MS	0.05	ND
Dimethyl sulphate#	77-78-1	In house method, Analysis by using GC-MS	0.05	ND
3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine#	143860-04-2	In house method, Analysis by using GC-MS	0.05	ND
Dinoseb (6-sec-butyl-2,4-dinitrophenol) #	88-85-7	In house method, Analysis by using GC-MS	0.05	ND
4,4'-methylenedi-o-toluidine#	838-88-0	EN14362-1	0.005	ND
4,4'-oxydianiline and its salts#	101-80-4	EN14362-1	0.005	ND
4-Aminoazobenzene#	60-09-3	EN14362-3	0.005	ND
4-methyl-m-phenylenediamine (toluene-2,4-diamine) #	95-80-7	EN14362-1	0.005	ND
6-methoxy-m-toluidine (p-cresidine) #	120-71-8	EN14362-1	0.005	ND
Biphenyl-4-ylamine#	92-67-1	EN14362-1	0.005	ND
o-aminoazotoluene#	97-56-3	EN14362-1	0.005	ND
o-Toluidine#	95-53-4	EN14362-1	0.005	ND
N-methylacetamide#	79-16-3	In house method, Analysis by using GC-MS	0.05	ND
1-bromopropane (n-propyl bromide) #	106-94-5	In house method, Analysis by using GC-MS	0.05	ND



The ninth 6 items list:	CAS No.	Method	Detection Limit(%)	Result (%)
Cadmium	7440-43-9	EPA3052	0.001	ND
Cadmium oxide*	1306-19-0	EPA3052	0.05	ND
Dipentyl phthalate (DPP) #	131-18-0	EPA 3540C	0.005	ND
4-Nonylphenol, branched and linear, ethoxylated [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, ethoxylated covering UVCB- and well-defined substances, polymers and homologues, which include any of the individual isomers and/or combinations thereof] #	--	EPA 3540C	0.005	ND
Ammonium pentadecafluorooctanoate (APFO) #	3825-26-1	In-house method, Analysis by using LC-DAD/MS	0.01	ND
Pentadecafluorooctanoic acid(PFOA) #	335-67-1	EPA 3550C, Analysis by using LC-DAD/MS	0.01	ND

The tenth 7 items list:	CAS No.	Method	Detection Limit(%)	Result (%)
Cadmium sulphide*	1306-23-6	EPA3052	0.05	ND
Dihexyl phthalate (DNHP) #	84-75-3	EPA3540c	0.005	ND
Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28) #	573-58-0	In-house method, Analysis by using LC-DAD/MS	0.01	ND
Disodium 4-amino-3-[[4'-[(2,4-diaminophenyl)azo][1,1'-biphenyl]-4-yl]azo]-5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate (C.I. Direct Black 38) #	1937-37-7	In-house method, Analysis by using LC-DAD/MS	0.01	ND
Imidazolidine-2-thione; 2-imidazoline-2-thiol#	96-45-7	In-house method, Analysis by using LC-DAD/MS	0.01	ND
Lead di(acetate) *	301-04-2	EPA3052	0.01	ND
Trixylyl phosphate#	25155-23-1	EPA3540c	0.01	ND

The eleventh 4 items list:	CAS No.	Method	Detection Limit(%)	Result (%)
1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear#	68515-50-4	EPA3540c	0.01	ND
Cadmium chloride*	10108-64-2	EPA3052	0.05	ND
Sodium perborate; perboric acid, sodium salt*	--	EPA3052	0.05	ND
Sodium peroxometaborate*	7632-04-4	EPA3052	0.05	ND

The twelfth 6 items list:	CAS No.	Method	Detection Limit(%)	Result (%)
2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320) #	3846-71-7	In-house method, Analysis by using LC-DAD/MS	0.05	ND

2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328) #	25973-55-1	In-house method, Analysis by using LC-DAD/MS	0.05	ND
DOTE 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE) #	15571-58-1	In-house method, Analysis by using GC-MS	0.05	ND
Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate and 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE and MOTE) #	--	In-house method, Analysis by using GC-MS	0.05	ND
Cadmium fluoride*	7790-79-6	EPA3052	0.05	ND
Cadmium sulphate*	10124-36-4,31119-53-6	EPA3052	0.05	ND

<b>The thirteenth 2 items list:</b>	<b>CAS No.</b>	<b>Method</b>	<b>Detection Limit(%)</b>	<b>Result (%)</b>
1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with $\geq$ 0.3% of dihexyl phthalate #	68515-51-5/68648-93-1	In-house method, Analysis by using GC-MS	0.05	ND
5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2] [covering any of the individual isomers of [1] and [2] or any combination thereof] #	--	In-house method, Analysis by using GC-MS	0.05	ND

<b>The fourteenth 5 items list:</b>	<b>CAS No.</b>	<b>Method</b>	<b>Detection Limit(%)</b>	<b>Result (%)</b>
1,3-propanesultone#	1120-71-4	In-house method, Analysis by using GC-MS	0.05	ND
2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327) #	3864-99-1	In-house method, Analysis by using LC-DAD	0.05	ND
2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350) #	36437-37-3	In-house method, Analysis by using LC-DAD	0.05	ND
Nitrobenzene#	98-95-3	In-house method, Analysis by using GC-MS	0.05	ND
Perfluorononan-1-oic-acid and its sodium and ammonium salts#	375-95-1 21049-39-8 4149-60-4	In-house method, Analysis by using LC-MS	0.05	ND

The Fifteenth 1 item list:	CAS No.	Method	Detection Limit(%)	Result (%)
Benzo[def]chrysene (Benzo[a]pyrene) <sup>#</sup>	50-32-8	AfPS GS 2014:01 PAK	0.005	ND

The Sixteenth 4 items list:	CAS No.	Method	Detection Limit(%)	Result (%)
4,4'-isopropylidenediphenol(BPA) <sup>#</sup>	80-05-7	EPA3550C	0.005	ND
4-Heptylphenol, branched and linear [substances with a linear and/or branched alkyl chain with a carbon number of 7 covalently bound predominantly in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof] <sup>#</sup>	--	EPA 3550C	0.005	ND
Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts Nonadecafluorodecanoic acid Ammonium nonadecafluorodecanoate Decanoic acid, nonadecafluoro-, sodium salt <sup>#</sup>	335-76-2 3108-42-7 3830-45-3	EPA 3550C, Analysis by using LC-DAD/MS	0.01	ND
p-(1,1-dimethylpropyl)phenol <sup>#</sup>	80-46-6	EPA 3540C	0.005	ND

The Seventeenth 1 item list:	CAS No.	Method	Detection Limit(%)	Result (%)
Perfluorohexane-1-sulphonic acid and its salts <sup>#</sup>	--	EPA 3550C, Analysis by using LC-MS	0.05	ND

The Eighteenth 7 item list:	CAS No.	Method	Detection Limit(%)	Result (%)
Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10]octadeca-7,15-diene ("Dechlorane Plus" <sup>TM</sup> ) [covering any of its individual anti- and syn-isomers or any combination thereof] <sup>#</sup>	--	In-house method, Analysis by using LC-DAD	0.05	ND
Benz[a]anthracene <sup>#</sup>	56-55-3	AfPS GS 2014:01 PAK	0.005	ND
Cadmium nitrate <sup>*</sup>	10325-94-7	EPA3052	0.05	ND
Cadmium carbonate <sup>*</sup>	513-78-0	EPA3052	0.05	ND
Cadmium hydroxide <sup>*</sup>	21041-95-2	EPA3052	0.05	ND
Chrysene <sup>#</sup>	218-01-9	AfPS GS 2014:01 PAK	0.005	ND
Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) [with ≥0.1% w/w 4-heptylphenol, branched and linear] <sup>#</sup>	--	In-house method, Analysis by using LC-DAD	0.05	ND

The Nineteenth 10 item list:	CAS No.	Method	Detection Limit(%)	Result (%)
Benzene-1,2,4-tricarboxylic acid 1,2 anhydride (trimellitic anhydride) (TMA)#	552-30-7	In-house method, Analysis by using LC-DAD	0.05	ND
Benzo[ghi]perylene#	191-24-2	AfPS GS 2014:01 PAK	0.005	ND
Decamethylcyclopentasiloxane(D5)#	541-02-6	In-house method, Analysis by using GC-MS	0.05	ND
Dicyclohexyl phthalate (DCHP)#	84-61-7	EPA 3540C	0.005	ND
Disodium octaborate*	12008-41-2	EPA3052	0.05	ND
Dodecamethylcyclohexasiloxane(D6) #	540-97-6	In-house method, Analysis by using GC-MS	0.05	ND
Ethylenediamine(EDA)#	107-15-3	In-house method, Analysis by using GC-MS	0.05	ND
Lead	7439-92-1	EPA3052	0.01	ND
Octamethylcyclotetrasiloxane(D4)#	556-67-2	In-house method, Analysis by using GC-MS	0.05	ND
Terphenyl, hydrogenated#	61788-32-7	In-house method, Analysis by using GC-MS	0.05	ND

The Twentieth 6 items list:	CAS No.	Method	Detection Limit(%)	Result (%)
1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one#	15087-24-8	In-house method, Analysis by using GC-MS	0.05	ND
2,2-bis(4'-hydroxyphenyl)-4-methylpentane#	6807-17-6	In-house method, Analysis by using GC-MS	0.05	ND
Benzo[k]fluoranthene#	207-08-9	AfPS GS 2014:01 PAK	0.005	ND
Fluoranthene#	206-44-0; 93951-69-0	AfPS GS 2014:01 PAK	0.005	ND
Phenanthrene#	85-01-8	AfPS GS 2014:01 PAK	0.005	ND
Pyrene#	129-00-0; 1718-52-1	AfPS GS 2014:01 PAK	0.005	ND

Result Summary:

According to the analytical results, concentrations of substances are all less than 0.1%(w/w) in the submitted sample(s).

Notes:

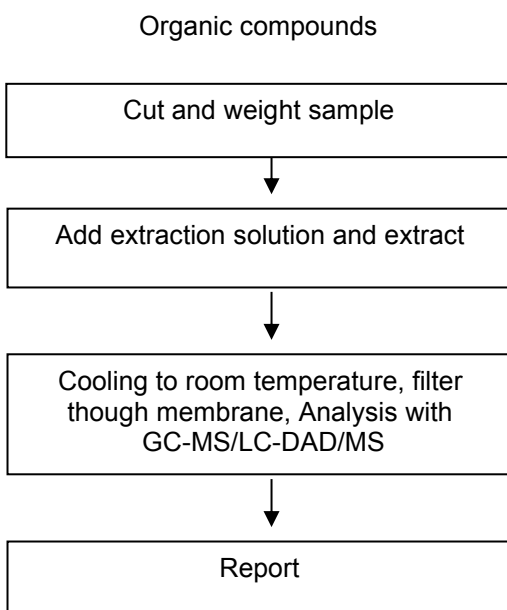
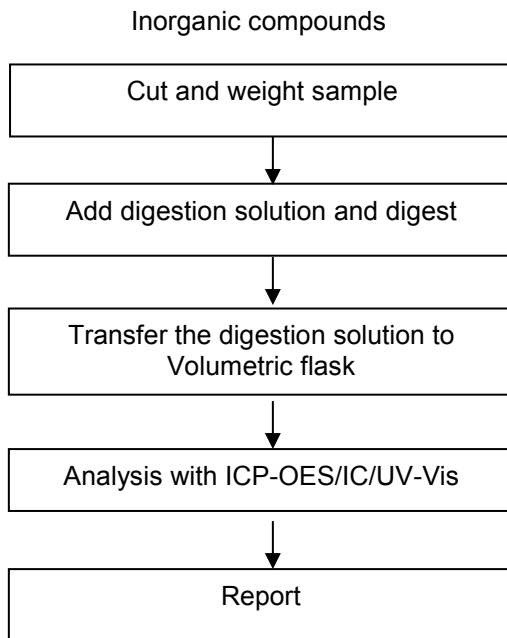
1. 0.1% = 1000 mg/kg(ppm)
2. ND=Not Detected ( < Detection Limit). NA=Not Available
3. \* = calculated by the test result of Tributyl Tin or selected element (i.e. Arsenate, Lead, Cobalt or Cr (VI), Boron, Cadmium, respectively)  
\*\* = calculated by the test results of exclusive substances including polyaromatic hydrocarbons and heterocyclic hydrocarbon.  
\*\*\*= Calculated concentration of Aluminosilicate, Refractory Ceramic Fibres ;Zirconia Aluminosilicate Aluminosilicate, Refractory Ceramic Fibres is based on the identified heavy metal result and by confirmation microscope.
- 4.#= Organic compounds      substances without # =Inorganic compounds

Sample photo(s), see annex2

-----End-----

## Annex1

### Flow chart



Product Technology Service

Report No.:NB2019040225-2

Page 15 of 15

## ANNEX 2

Sample photo(s), consists of 1 page



Polyimide Adhesive Tape With Silicone Resin