

Test Report

Number: LCZC16060326-E

Date: Jun. 23, 2016

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Date of Received : Jun. 13, 2016

Testing Period : From Jun. 13, 2016 to Jun. 20, 2016

Report on the submitted sample said to be:

Item Name : RUBBER SHEET

Material : NR、CR、SBR、EPDM、IIR、NBR、Silicone、White FDA、FKM

Sample No.

Test Request

M1

Regulation (EC) No.1907/2006 (REACH) — Substances of Very High Concern (SVHC) candidate list updated on Dec. 17, 2015, testing of the 168 SVHC was performed by currently available analytical techniques.

Notes: M1=01+02+03+04+05+06+07+08+09

Please see the next page(s) for details.

Signed for and on behalf of **LCTECH**

Approved by


Robert Luo
Technical Manager

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1 TEST RESULT

1.1 SVHC Testing Results — Regulation(EC) No.1907/2006

No.	Substance of Very High Concern	CAS No.	Result (%)
			M1
1	Anthracene *	120-12-7	ND
2	4, 4' -Diaminodiphenylmethane(MDA)	101-77-9	ND
3	Dibutyl Phthalate (DBP) *	84-74-2	ND
4	Cobalt Dichloride Δ	7646-79-9	ND
5	Diarsenic Pentaoxide Δ	1303-28-2	ND
6	Diarsenic Trioxide Δ	1327-53-3	ND
7	Sodium Dichromate Δ	7789-12-0, 10588-01-9	ND
8	5-Tert-Butyl-2,4,6-Trinitro-M-Xylene * (Musk-Xylene)	81-15-2	ND
9	Bis (2-Ethyl Hexyl) Phthalate(DEHP) *	117-81-7	ND
10	Hexabromocyclododecane, * (HBCDD) #1	25637-99-4, 3194-55-6	ND
11	Short Chain Chlorinated Paraffin,C10-C13 (SCCP) *	85535-84-8	ND
12	Bis (Tributyltin) Oxide(TBTO) #2	56-35-9	ND
13	Lead Hydrogen Arsenate Δ	7784-40-9	ND
14	Triethyl Arsenate Δ	15606-95-8	ND
15	Benzyl Butyl Phthalate (BBP) *	85-68-7	ND
16	Anthracene oil #3	90640-80-5	ND
17	Anthracene oil, Anthracene paste, distn.Lights #3	91995-17-4	ND
18	Anthracene oil, anthracene paste, anthracene fraction #3	91995-15-2	ND
19	Anthracene oil, Anthracene-low #3	90640-82-7	ND
20	Anthracene oil, anthracene paste #3	90640-81-6	ND
21	Pitch, coal tar, high-temp #3	65996-93-2	ND
22	Aluminosilicate, Refractory Ceramic Fibres #4 Δ	Index no.: 650-017-00-8	ND
23	Zirconia Aluminosilicate,Refractory Ceramic Fibres #5 Δ	Index no. 650-017-00-8	ND

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No.	Substance of Very High Concern	CAS No.	Result (%)
			M1
24	Di-isobutylphthalate (DIBP) *	84-69-5	ND
25	2,4-Dinitrotoluene (DNT) *	121-14-2	ND
26	Tris(2-chloroethyl) phosphate (TCEP) *	115-96-8	ND
27	Lead chromate Δ	7758-97-6	ND
28	Lead chromate molybdate sulphate red(C.I. Pigment Red104) Δ	12656-85-8	ND
29	Lead sulfochromate yellow (C.I. Pigment Yellow 34) Δ	1344-37-2	ND
30	Acrylamide*	79-06-1	ND
31	Trichloroethylene (TCE) *	79-01-6	ND
32	Boric acid Δ	10043-35-3, 11113-50-1	ND
33	Disodium tetraborate, Anhydrous Δ	1303-96-4, 1330-43-4, 12179-04-3	ND
34	Tetraboron disodium heptaoxide, hydrate Δ	12267-73-1	ND
35	Sodium chromate Δ	7775-11-3	ND
36	Potassium chromate Δ	7789-00-6	ND
37	Ammonium dichromate Δ	7789-09-5	ND
38	Potassium dichromate Δ	7778-50-9	ND
39	Cobalt(II) sulphate Δ	10124-43-3	ND
40	Cobalt(II) dinitrate Δ	10141-05-6	ND
41	Cobalt(II) carbonate Δ	513-79-1	ND
42	Cobalt(II) diacetate Δ	71-48-7	ND
43	2-Methoxyethanol (ME) *	109-86-4	ND
44	2-Ethoxyethanol (EE) *	110-80-5	ND
45	Chromium trioxide Δ	1333-82-0	ND
46	Oligomers of chromic acid and dichromic acid Δ	7738-94-5, 13530-68-2	ND
47	Strontium chromate Δ	7789-06-2	ND
48	2-ethoxyethyl acetate(EEA) *	111-15-9	ND
49	Hydrazine	302-01-2, 7803-57-8	ND

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No.	Substance of Very High Concern	CAS No.	Result (%)
			M1
50	1-methyl-2-pyrrolidone(MP) *	872-50-4	ND
51	1,2,3-trichloropropane(TCP) *	96-18-4	ND
52	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP)	68515-42-4	ND
53	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP) *	71888-89-6	ND
54	Dichromium tris(chromate) Δ	24613-89-6	ND
55	Potassium hydroxyoctaoxodi zincatedichromate Δ	11103-86-9	ND
56	Pentazinc chromate octahydroxide Δ	49663-84-5	ND
57	Formaldehyde, oligomeric reaction products with aniline *	25214-70-4	ND
58	Bis(2-methoxyethyl) phthalate (DMEP) *	117-82-8	ND
59	2-Methoxyaniline(MA) *	90-04-0	ND
60	4-(1,1,3,3-tetramethylbutyl)phenol (4-tert-Octylphenol) *	140-66-9	ND
61	1,2-Dichloroethane (DCE) *	107-06-2	ND
62	Bis(2-methoxy ethyl)ether (BMEE) *	111-96-6	ND
63	Arsenic acid Δ	7778-39-4	ND
64	Calcium arsenate Δ	7778-44-1	ND
65	Trilead diarsenate Δ	3687-31-8	ND
66	N,N-Dimethylacetamide (DMAC) *	127-19-5	ND
67	2,2'-dichloro-4,4'-methylenedianiline (MOCA) *	101-14-4	ND
68	Phenolphthalein *	77-09-8	ND
69	Lead azide Δ	13424-46-9	ND
70	Lead styphnate Δ	15245-44-0	ND
71	lead dipicrate Δ	6477-64-1	ND
72	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme) *	112-49-2	ND
73	Ethylene glycol dimethyl ether (EGDME) *	110-71-4	ND
74	Diboron trioxideΔ	1303-86-2	ND

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No.	Substance of Very High Concern	CAS No.	Result (%)
			M1
75	Formamide *	75-12-7	ND
76	Lead(II) bis(methanesulfonate)Δ	17570-76-2	ND
77	1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione (TGIC) *	2451-62-9	ND
78	1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione (β-TGIC)	59653-74-6	ND
79	4,4'-bis(dimethylamino)benzophenone (Michler's ketone) *	90-94-8	ND
80	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base) *	101-61-1	ND
81	[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26) *	2580-56-5	ND
82	[4-[4,4'-bis(dimethylamino)benzhydrylidene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Violet 3) *	548-62-9	ND
83	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol *	561-41-1	ND
84	α,α-Bis[4-(dimethylamino)phenyl]-4-(phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) *	6786-83-0	ND
85	Pyrochlore, antimony lead yellow Δ	8012-00-8	ND
86	6-methoxy-m-toluidine (p-cresidine) *	120-71-8	ND
87	Henicosfluoroundecanoic acid	2058-94-8	ND
88	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	ND

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No.	Substance of Very High Concern	CAS No.	Result (%)
			M1
89	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	ND
90	Dibutyltin dichloride (DBTC) *	683-18-1	ND
91	Lead bis(tetrafluoroborate) Δ	13814-96-5	ND
92	Lead dinitrate Δ	10099-74-8	ND
93	Silicic acid, lead salt Δ	11120-22-2	ND
94	4-Aminoazobenzene *	60-09-3	ND
95	Lead Titanium Zirconium Oxide Δ	12626-81-2	ND
96	Lead oxide (lead monoxide) Δ	1317-36-8	ND
97	o-Toluidine *	95-53-4	ND
98	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	ND
99	Silicic acid (H ₂ Si ₂ O ₅), 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] Δ	68784-75-8	ND
100	Trilead bis(carbonate)dihydroxide Δ	1319-46-6	ND
101	Furan *	110-00-9	ND
102	N,N-dimethylformamide *	68-12-2	ND
103	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated [covering well-defined substances and UVCB substances, polymers and homologues]	-	ND

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			M1
104	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]	-	ND
105	4,4'-methylenedi-o-toluidine *	838-88-0	ND
106	Diethyl sulphate *	64-67-5	ND
107	Dimethyl sulphate *	77-78-1	ND
108	Lead oxide sulfate Δ	12036-76-9	ND
109	Lead titanium trioxide Δ	12060-00-3	ND
110	Acetic acid, lead salt, basic Δ	51404-69-4	ND
111	[Phthalato(2-)]dioxotrilead Δ	69011-06-9	ND
112	Bis(pentabromophenyl) ether (DecaBDE) *	1163-19-5	ND
113	N-methylacetamide *	79-16-3	ND
114	Dinoseb (6-sec-butyl-2,4-dinitrophenol) *	88-85-7	ND
115	1,2-Diethoxyethane *	629-14-1	ND
116	Tetralead trioxide sulphate Δ	12202-17-4	ND
117	N-pentyl-isopentylphthalate *	776297-69-9	ND
118	Dioxobis(stearato)trilead Δ	12578-12-0	ND
119	Tetraethyllead Δ	78-00-2	ND
120	Pentalead tetraoxide sulphate Δ	12065-90-6	ND
121	Pentacosafuorotridecanoic acid	72629-94-8	ND
122	Tricosafuorododecanoic acid	307-55-1	ND
123	Heptacosafuorotetradecanoic acid	376-06-7	ND
124	1-bromopropane (n-propyl bromide) *	106-94-5	ND
125	Methoxy acetic acid *	625-45-6	ND
126	4-methyl-m-phenylenediamine (toluene-2,4-diamine) *	95-80-7	ND
127	Methyloxirane (Propylene oxide) *	75-56-9	ND
128	Trilead dioxide phosphonate Δ	12141-20-7	ND
129	o-aminoazotoluene *	97-56-3	ND
130	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear *	84777-06-0	ND

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No.	Substance of Very High Concern	CAS No.	Result (%)
			M1
131	4,4'-oxydianiline and its salts *	101-80-4	ND
132	Orange lead (lead tetroxide) Δ	1314-41-6	ND
133	Biphenyl-4-ylamine *	92-67-1	ND
134	Diisopentylphthalate (DIPP) *	605-50-5	ND
135	Fatty acids, C16-18, lead salts Δ	91031-62-8	ND
136	Diazeno-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	ND
137	Sulfurous acid, lead salt, dibasic Δ	62229-08-7	ND
138	Lead cyanamate Δ	20837-86-9	ND
139	Cadmium *	7440-43-9	ND
140	Cadmium oxide Δ	1306-19-0	ND
141	Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	ND
142	Pentadecafluorooctanoic acid (PFOA)	335-67-1	ND
143	Dipentyl phthalate (DPP) *	131-18-0	ND
144	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]	--	ND
145	Cadmium sulphide Δ	1306-23-6	ND
146	Dihexyl phthalate *	84-75-3	ND
147	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28) *	573-58-0	ND
148	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	ND
149	Imidazolidine-2-thione; 2-imidazoline-2-thiol*	96-45-7	ND
150	Lead di(acetate) Δ	301-04-2	ND
151	Trixylyl phosphate (TXYP)*	25155-23-1	ND

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			M1
152	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear (DIHexP) [※]	68515-50-4	ND
153	Cadmium chloride Δ	10108-64-2	ND
154	Sodium perborate; perboric acid, sodium salt Δ	-	ND
155	Sodium peroxometaborate Δ	7632-04-4	ND
156	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	ND
157	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE) Δ	15571-58-1	ND
158	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) Δ	-	ND
159	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	ND
160	Cadmium fluoride Δ	7790-79-6	ND
161	Cadmium sulphate Δ	10124-36-4; 31119-53-6	ND
162	1,2-benzenedicarboxylic acid, di-C6-10-alkylesters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate	68515-51-5; 68648-93-1	ND
163	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 stereoisomers of [1] and [2] or any combination thereof]	-	ND
164	1,3-propanesultone	1120-71-4	ND
165	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl) phenol (UV-327)	3864-99-1	ND

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			M1
166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3	ND
167	Nitrobenzene	98-95-3	ND
168	Perfluorononan-1-oic-acid and its sodium and ammonium salts	375-95-1; 21049-39-8; 4149-60-4	ND

Remark:

- ND= Not detected (less than report limit).
- report limit = 0.01%.
- % = percentage by weight.
- SVHC = Substance Of Very High Concern.
- Δ= According to currently available analytical techniques, Concentration of substance is converted from the concentration of specific heavy metal or inorganic element (As, Cr⁶⁺, Pb, Al, Si, Zr, B/H₃BO₃, Co, Mo, Zn, Sb, Ti, Ba, Cd, Sn).
- ※ = The testing item marked with ※ and Arsenic (As), Hexavalent Chromium (Cr⁶⁺), Lead (Pb), Cobalt (Co), Molybdenum (Mo), Strontium (Sr), Silicon(Si), Titanium(Ti), Boron (B) and Cadmium(Cd) are accredited by the CNAS.
- * = Concentration of substance is converted from the concentration of 4,4'-diaminodiphenylmethane (4,4'-MDA). According to the Annex XV dossiers, 4,4'-MDA is a major constituent (47%~65%,w/w) of the UVCB substance formaldehyde, oligomeric reaction products with aniline.
- #1 Hexabromocyclododecane(HBCDD), and all major diastereoisomers identified:(α, β, γ- HBCDD).
- #2 Calculated concentration based on the identified tributyltin, TBT results.
- #3 Calculated concentration based on the total concentration of the identified polyaromatic hydrocarbons (PAHs), aromatic hydrocarbons and heterocycles results. Identity and ratio of each substance shall refer to the respective Annex XV dossiers submitted to the ECHA.
- #4 Aluminosilicate Refractory Ceramic Fibres are fibres covered by index number 650-017-00-8 in Annex VI, part 3, table 3.1 of Regulation (EC) No 1272/2008, and fulfil the three following conditions:
 - a) Al₂O₃ and SiO₂ are the main components present within variable concentration ranges.
 - b) Fibres have a length weighted geometric mean diameter less two standard geometric errors of 6 or less micrometers (μm).
 - c) Alkaline oxide and alkali earth oxide(Na₂O+K₂O+CaO+MgO+BaO) content less or equal to 18%w/w.
- #5 Zirconia Aluminosilicate Refractory Ceramic Fibres are fibres covered by index number 650-017-00-8 in Annex VI, part 3, table 3.1 of Regulation (EC) No 1272/2008, and fulfil the three following conditions:
 - a) Al₂O₃, SiO₂ and ZrO₂, are the main components present within variable concentration Ranges
 - b) Fibres have a length weighted geometric mean diameter less two standard geometric errors of 6 or less micrometers (μm).

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c) Alkaline oxide and alkali earth oxide($\text{Na}_2\text{O}+\text{K}_2\text{O}+\text{CaO}+\text{MgO}+\text{BaO}$) content less or equal to 18%w/w.

Note:

- Substances of very high concern (SVHC) are classified as:
Carcinogenic, mutagenic or toxic to reproduction (CMR);
Persistent, bio-accumulative and toxic (PBT);
Very persistent and very bio-accumulative (vPvB);
- The SVHC proposed list is under evaluation by ECHA and may subject to change in the future.
More information please refer to:
http://echa.europa.eu/chem_data/authorisation_process/candidate_list_table_en.asp#download
- In accordance with Regulation (EC) No. 1907/2006, any 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 is present in those articles in quantities totaling over one tonne per producer or importer per year; and (b) the substance is present in those articles above a concentration of 0,1% weight by weight (w/w).
- Article 33 of Regulation (EC) No. 1907/2006 requires supplier of an article containing a substance meeting the criteria in Article 57 and identified in accordance with Article 59(1) in a concentration above 0,1% weight by weight (w/w) shall provide the recipient of the article with sufficient information, available to the supplier, to allow safe use of the article including as a minimum, the name of that substance.

Test method:

Reference to

- 1). US EPA 3550C:2007 Ultrasonic extraction & US EPA 8270D:2007 Semivolatile organic compounds by gas Chromatography / mass Spectrometry (GC/MS).
- 2). US EPA 3540C:1996 Soxhlet Extraction & US EPA 8270D:2007 Semivolatile organic compounds by gas chromatography/mass spectrometry (GC/MS).
- 3). US EPA 3060A:1996 Alkaline Digestion for Hexavalent Chromium US EPA 7196A:1992 Chromium, Hexavalent (colorimetric) (UV-VIS Method).
- 4). ISO3613:2000 Chromate conversion coatings on zinc, calcium, aluminum-zinc alloys and zinc-aluminum alloys - Test methods: Determination of hexavalent chromium content of colored chromate coating (UV- VIS method).
- 5). US EPA 3052:1996 Microwave assisted acid digestion of siliceous and organically based matrices & US EPA 6010C:2007 Inductively Coupled Plasma-Atomic Emission Spectrometry (ICP-AES).
- 6). US EPA 3050B:1996 acid digestion of sediments, sludges, and soils & US EPA 6010C:2007

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Inductively Coupled Plasma-Atomic Emission Spectrometry (ICP-AES).

- 7). In-house method for testing boron compounds by water extraction.
- 8). In-house method for testing hydrazine by UV- VIS method.
- 9). US EPA 8260C:2006 Head-Space GC method, Volatile organic compounds by Head-Space gas Chromatography / mass Spectrometry (HS/GC/MS).
- 10). EN 14362-1:2012 Textiles – Methods for the determination of certain aromatic amines derived from Azo colorants- Part 1: Detection of the use of certain Azo colorants accessible with and without Extracting the fibres.
- 11). US EPA 3550C(2007) & EPA 8321B(2007), determined by High Performance Liquid Chromatography (HPLC).
- 12). US EPA 3550C(2007) & EPA 8321B(2007), determined by Liquid Chromatography-Mass Spectrometer (LC-MS).
- 13). BS EN 14582-2007 Halogen and sulfur content-Oxygen combustion in closed systems and determination methods.
- 14). ISO 17353:2005, determined by Gas Chromatographic-Mass Spectrometric (GC-MS).
- 15). Distillation method, determined by Gas Chromatographic-Mass Spectrometric (GC-MS).
- 16). ZEK 01.4-08, determined by Gas Chromatographic-Mass Spectrometric (GC-MS).
- 17). US EPA 3550C:2007& US EPA 8260C:2006, determined by Head-Space gas Chromatography / mass Spectrometry (HS/GC/MS).

2 TESTED COMPONENTS

- 01 Black soft plastic
- 02 Black soft plastic
- 03 Black soft plastic
- 04 Black soft plastic
- 05 Black soft plastic
- 06 Black soft plastic
- 07 White soft plastic
- 08 Semitransparent soft plastic
- 09 Light brown soft plastic

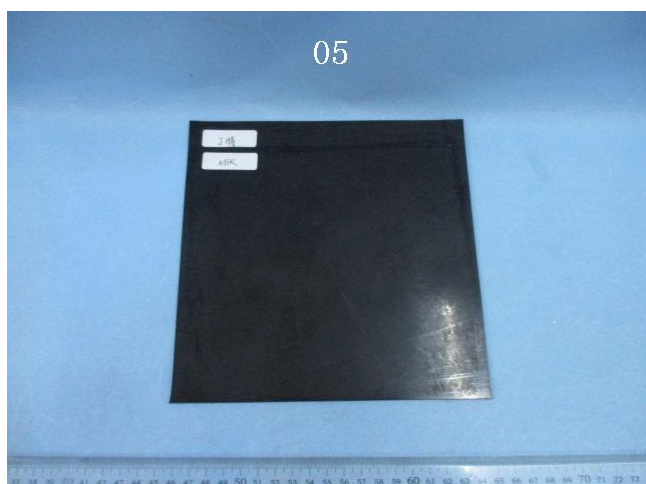
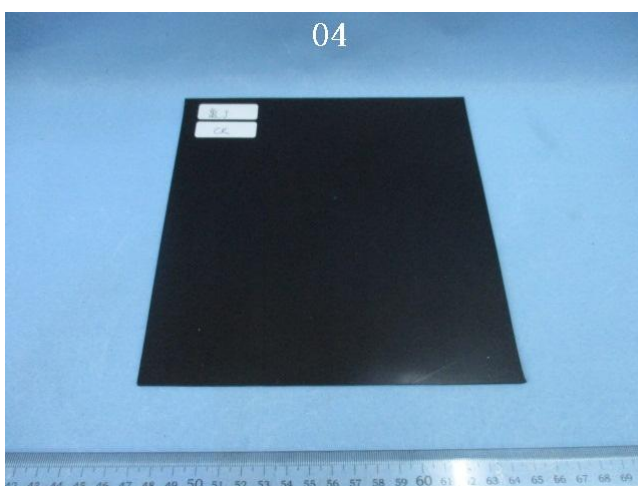
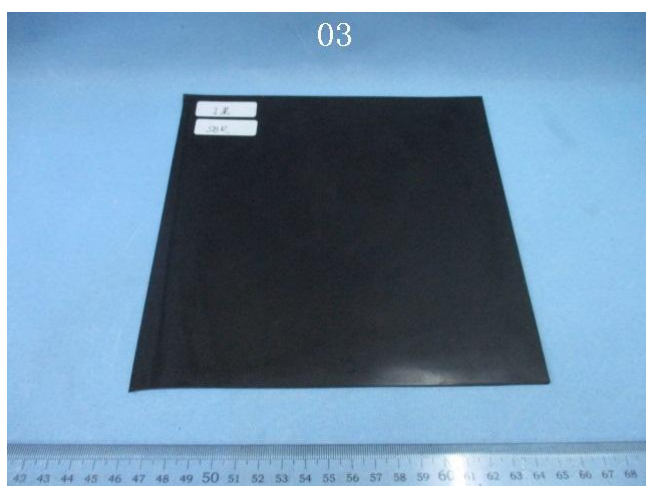
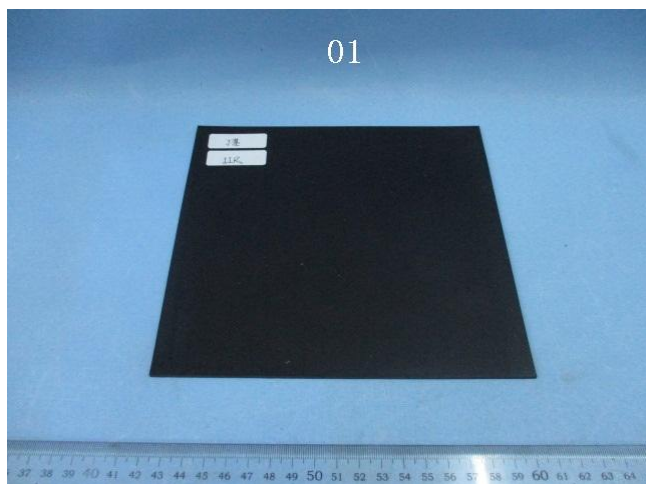
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Photo of the Sample

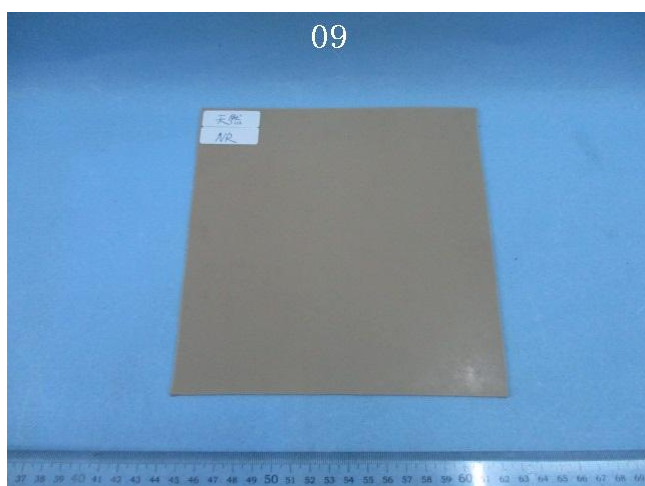
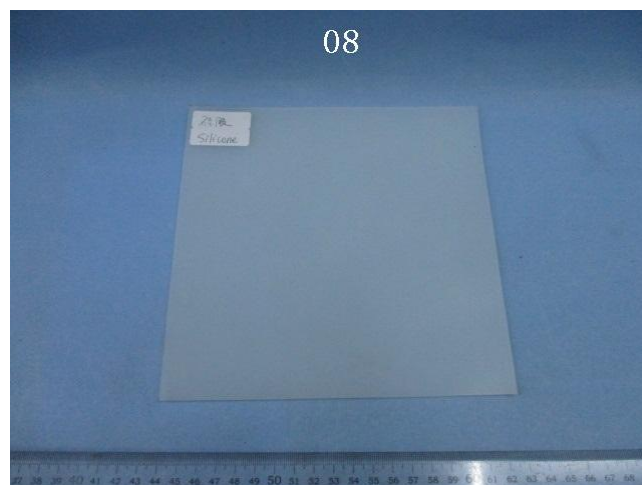
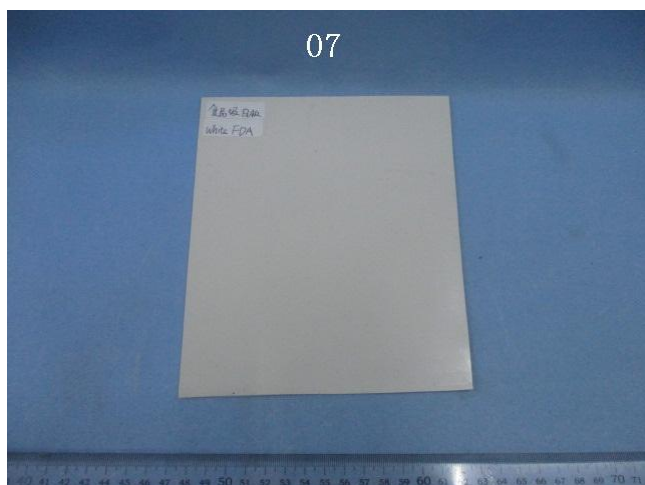


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As described in the above component description(s) and showed in the above picture(s), the relevant composite sample(s) (M1=01+02+03+04+05+06+07+08+09) were analyzed with equal weight of each sample.



End of Report