

Hong Kong Government Recognized Service Supplier
Approved Laboratory of The Woolmark Company

Members of :

American National Standards Institute
American Society for Testing and Materials
British Standards Institute

Hong Kong Association for Testing, Inspection and Certification Limited
Hong Kong Toys Council

Test Report

Date: Jun 29, 2015

Number: HKGC00002770

Sample Description:

One (1) piece of submitted sample said to be :
Item Name : M350 Enclosure
Model No. : M350
Manufacturer : Ituner Networks



Tests conducted:

As requested by the applicant, refer to attached page(s) for details.

Conclusion:

<u>Requirement</u>	<u>Result</u>
(1) EU REACH Regulation (EC) No 1907/2006 Article 33(1) - Obligation to provide information of safe use (see REACH requirement in report for details)	Pass

For and on behalf of :
Intertek Testing Services HK Ltd.

Ken Chan
Assistant General Manager



Test Report

Number: HKGC00002770

Tests Conducted

1 SVHC Screening Test

Test Method : By a combination of X-Ray Fluorescence Spectroscopy, Inductively Coupled Argon Plasma Spectrometry, Gas Chromatographic - Mass Spectrometry and Liquid Chromatographic - Mass Spectrometry techniques.

No.	Chemical Substances	EC No.	CAS No.	Results % (w/w)
				Whole Product
1	Anthracene	204-371-1	120-12-7	<0.05
2	4,4'-Diaminodiphenylmethane	202-974-4	101-77-9	<0.05
3	Dibutyl phthalate/ DBP	201-557-4	84-74-2	<0.05
4	Cobalt dichloride Δ	231-589-4	7646-79-9	<0.05
5	Diarsenic pentaoxide Δ	215-116-9	1303-28-2	<0.05
6	Diarsenic trioxide Δ	215-481-4	1327-53-3	<0.05
7	Sodium dichromate Δ	234-190-3	7789-12-0 10588-01-9	<0.05
8	5-Tert-butyl-2,4,6-trinitro-m-xylene/ Musk xylene	201-329-4	81-15-2	<0.05
9	Bis (2-ethylhexyl) phthalate/ DEHP	204-211-0	117-81-7	<0.05
10	Hexabromocyclododecane/ HBCDD and all major diastereoisomers identified (α-HBCDD, β-HBCDD, γ-HBCDD)	247-148-4 and 221-695-9	25637-99-4 and 3194-55-6 (134237-51-7, 134237-50-6, 134237-52-8)	<0.05
11	Short chain chlorinated paraffin (C10-C13)	287-476-5	85535-84-8	<0.05
12	Bis (tributyltin) oxide Δ	200-268-0	56-35-9	<0.05
13	Lead hydrogen arsenate Δ	232-064-2	7784-40-9	<0.05
14	Triethyl arsenate Δ	427-700-2	15606-95-8	<0.05
15	Benzyl butyl phthalate/ BBP	201-622-7	85-68-7	<0.05
16	Anthracene oil	292-602-7	90640-80-5	<0.05
17	Anthracene oil, anthracene paste, distn. lights	295-278-5	91995-17-4	<0.05
18	Anthracene oil, anthracene paste, anthracene fraction	295-275-9	91995-15-2	<0.05
19	Anthracene oil, anthracene-low	292-604-8	90640-82-7	<0.05
20	Anthracene oil, anthracene paste	292-603-2	90640-81-6	<0.05
21	Diisobutyl phthalate/ DIBP	201-553-2	84-69-5	<0.05
22	2,4-Dinitrotoluene	204-450-0	121-14-2	<0.05
23	Lead chromate Δ	231-846-0	7758-97-6	<0.05
24	Lead chromate molybdate sulfate red/ C.I. pigment red 104 Δ	235-759-9	12656-85-8	<0.05
25	Lead sulfochromate yellow/ C.I. pigment yellow 34 Δ	215-693-7	1344-37-2	<0.05
26	Coal tar pitch, high temperature	266-028-2	65996-93-2	<0.05
27	Tris(2-chloroethyl)phosphate/ TCEP	204-118-5	115-96-8	<0.05
28	Aluminosilicate, refractory ceramic fibres Δ	--	Index number 650-017-00-8	<0.05
29	Zirconia aluminosilicate, refractory ceramic fibres Δ	--	Index number 650-017-00-8	<0.05
30	Acrylamide	201-173-7	79-06-1	<0.05



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				Whole Product
31	Trichloroethylene	201-167-4	79-01-6	<0.05
32	Boric acid Δ	233-139-2/ 234-343-4	10043-35-3 11113-50-1	<0.05
33	Disodium tetraborate, anhydrous Δ	215-540-4	1330-43-4 1303-96-4 12179-04-3	<0.05
34	Tetraboron disodium heptaoxide, hydrate Δ	235-541-3	12267-73-1	<0.05
35	Sodium chromate Δ	231-889-5	7775-11-3	<0.05
36	Potassium chromate Δ	232-140-5	7789-00-6	<0.05
37	Ammonium dichromate Δ	232-143-1	7789-09-5	<0.05
38	Potassium dichromate Δ	231-906-6	7778-50-9	<0.05
39	2-Ethoxyethanol	203-804-1	110-80-5	<0.05
40	2-Methoxyethanol	203-713-7	109-86-4	<0.05
41	Cobalt (II) diacetate Δ	200-755-8	71-48-7	<0.05
42	Cobalt (II) carbonate Δ	208-169-4	513-79-1	<0.05
43	Cobalt (II) dinitrate Δ	233-402-1	10141-05-6	<0.05
44	Cobalt (II) sulphate Δ	233-334-2	10124-43-3	<0.05
45	Chromium trioxide Δ	215-607-8	1333-82-0	<0.05
46	Acids generated from chromium trioxide and their oligomers Δ : Chromic acid Dichromic acid Oligomers of chromic acid and dichromic acid	231-801-5 236-881-5	7738-94-5 13530-68-2	<0.05
47	1-Methyl-2-pyrrolidone	212-828-1	872-50-4	<0.05
48	1,2-Benzenedicarboxylic acid, di-C ₆₋₈ -branched alkyl esters, C7-rich/ DIHP	276-158-1	71888-89-6	<0.05
49	1,2-Benzenedicarboxylic acid, di-C ₇₋₁₁ -branched and linear alkyl esters/ DHNUP	271-084-6	68515-42-4	<0.05
50	1,2,3-Trichloropropane	202-486-1	96-18-4	<0.05
51	2-Ethoxyethyl acetate/ 2-EEA	203-839-2	111-15-9	<0.05
52	Hydrazine	206-114-9	7803-57-8, 302-01-2	<0.05
53	Strontium chromate Δ	232-142-6	7789-06-2	<0.05
54	Lead styphnate Δ	239-290-0	15245-44-0	<0.05
55	Lead diazide, Lead azide Δ	236-542-1	13424-46-9	<0.05
56	Lead dipicrate Δ	229-335-2	6477-64-1	<0.05
57	Phenolphthalein	201-004-7	77-09-8	<0.05
58	2,2'-Dichloro-4,4'-methylenedianiline	202-918-9	101-14-4	<0.05
59	N,N-dimethylacetamide	204-826-4	127-19-5	<0.05
60	Trilead diarsenate Δ	222-979-5	3687-31-8	<0.05
61	Calcium arsenate Δ	231-904-5	7778-44-1	<0.05
62	Arsenic acid Δ	231-901-9	7778-39-4	<0.05
63	Bis(2-methoxyethyl) ether	203-924-4	111-96-6	<0.05
64	1,2-Dichloroethane	203-458-1	107-06-2	<0.05
65	4-(1,1,3,3-Tetramethylbutyl)phenol/ 4-tert-octyl phenol	205-426-2	140-66-9	<0.05



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				Whole Product
66	2-Methoxyaniline/ o-Anisidine	201-963-1	90-04-0	<0.05
67	Bis(2-methoxyethyl) phthalate	204-212-6	117-82-8	<0.05
68	Formaldehyde, oligomeric reaction products with aniline/ technical MDA	500-036-1	25214-70-4	<0.05
69	Pentazine chromate octahydroxide Δ	256-418-0	49663-84-5	<0.05
70	Potassium hydroxyoctaoxidizincatedichromate Δ	234-329-8	11103-86-9	<0.05
71	Dichromium tris(chromate) Δ	246-356-2	24613-89-6	<0.05
72	[4-[4,4'-bis(dimethylamino)benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride/ C.I. Basic Violet 3 (with ≥0.1% of Michler's ketone or Michler's base)	208-953-6	548-62-9	<0.05
73	1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione/ β-TGIC	423-400-0	59653-74-6	<0.05
74	1,2-bis(2-methoxyethoxy)ethane/ TEGDME; triglyme	203-977-3	112-49-2	<0.05
75	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol (with ≥0.1% of Michler's ketone or Michler's base)	209-218-2	561-41-1	<0.05
76	Lead(II) bis(methanesulfonate) Δ	401-750-5	17570-76-2	<0.05
77	1,2-Dimethoxyethane/ Ethylene glycol dimethyl ether, EGDME	203-794-9	110-71-4	<0.05
78	Diboron trioxide Δ	215-125-8	1303-86-2	<0.05
79	α,α-Bis[4-(dimethylamino)phenyl]-4(phenylamino)naphthalene-1-methanol/ C.I. Solvent Blue 4 (with ≥0.1% of Michler's ketone or Michler's base)	229-851-8	6786-83-0	<0.05
80	1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione/ TGIC	219-514-3	2451-62-9	<0.05
81	4,4'-bis(dimethylamino)benzophenone/ Michler's ketone	202-027-5	90-94-8	<0.05
82	N,N,N',N'-tetramethyl-4,4'-methylenedianiline/ Michler's base	202-959-2	101-61-1	<0.05
83	Formamide	200-842-0	75-12-7	<0.05
84	[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride/ C.I. Basic Blue 26 (with ≥0.1% of Michler's ketone or Michler's base)	219-943-6	2580-56-5	<0.05
85	Bis(pentabromophenyl) ether/ Decabromodiphenyl ether, DecaBDE	214-604-9	1163-19-5	<0.05
86	Pentacosafuorotridecanoic acid	276-745-2	72629-94-8	<0.05
87	Tricosafuorododecanoic acid	206-203-2	307-55-1	<0.05
88	Henicosafuoroundecanoic acid	218-165-4	2058-94-8	<0.05
89	Heptacosafuorotetradecanoic acid	206-803-4	376-06-7	<0.05
90	Diazene-1,2-dicarboxamide/ C, C'-azodi(formamide)	204-650-8	123-77-3	<0.05



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No.	Chemical Substances	EC No.	CAS No.	Results % (w/w)
				Whole Product
91	Cyclohexane-1,2-dicarboxylic anhydride, cis-cyclohexane-1,2-dicarboxylic anhydride, trans-cyclohexane-1,2-dicarboxylic anhydride	201-604-9, 236-086-3, 238-009-9	85-42-7, 13149-00-3, 14166-21-3	<0.05
92	Hexahydromethylphthalic anhydride, Hexahydro-4-methylphthalic anhydride, Hexahydro-1-methylphthalic anhydride, Hexahydro-3-methylphthalic anhydride	247-094-1, 243-072-0, 256-356-4, 260-566-1	25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9	<0.05
93	4-Nonylphenol, branched and linear	--	--	<0.05
94	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated	--	--	<0.05
95	Methoxyacetic acid	210-894-6	625-45-6	<0.05
96	N,N-dimethylformamide	200-679-5	68-12-2	<0.05
97	Dibutyltin dichloride/ DBTC Δ	211-670-0	683-18-1	<0.05
98	Lead monoxide/ Lead oxide Δ	215-267-0	1317-36-8	<0.05
99	Orange lead/ Lead tetroxide Δ	215-235-6	1314-41-6	<0.05
100	Lead bis(tetrafluoroborate) Δ	237-486-0	13814-96-5	<0.05
101	Trilead bis(carbonate)dihydroxide Δ	215-290-6	1319-46-6	<0.05
102	Lead titanium trioxide Δ	235-038-9	12060-00-3	<0.05
103	Lead titanium zirconium oxide Δ	235-727-4	12626-81-2	<0.05
104	Silicic acid, lead salt Δ	234-363-3	11120-22-2	<0.05
105	Silicic acid, barium salt, lead-doped Δ	272-271-5	68784-75-8	<0.05
106	1-Bromopropane/ n-Propyl bromide	203-445-0	106-94-5	<0.05
107	Methyloxirane / Propylene oxide	200-879-2	75-56-9	<0.05
108	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	284-032-2	84777-06-0	<0.05
109	Diisopentylphthalate/ DIPP	210-088-4	605-50-5	<0.05
110	N-pentyl-isopentylphthalate	--	776297-69-9	<0.05
111	1,2-Diethoxyethane	211-076-1	629-14-1	<0.05
112	Acetic acid, lead salt, basic Δ	257-175-3	51404-69-4	<0.05
113	Lead oxide sulfate Δ	234-853-7	12036-76-9	<0.05
114	[Phthalato(2-)]dioxotrilead Δ	273-688-5	69011-06-9	<0.05
115	Dioxobis(stearato)trilead Δ	235-702-8	12578-12-0	<0.05
116	Fatty acids, C16-18, lead salts Δ	292-966-7	91031-62-8	<0.05
117	Lead cyanamate Δ	244-073-9	20837-86-9	<0.05
118	Lead dinitrate Δ	233-245-9	10099-74-8	<0.05
119	Pentalead tetraoxide sulphate Δ	235-067-7	12065-90-6	<0.05
120	Pyrochlore, antimony lead yellow Δ	232-382-1	8012-00-8	<0.05
121	Sulfurous acid, lead salt, dibasic Δ	263-467-1	62229-08-7	<0.05
122	Tetraethyllead Δ	201-075-4	78-00-2	<0.05
123	Tetralead trioxide sulphate Δ	235-380-9	12202-17-4	<0.05
124	Trilead dioxide phosphonate Δ	235-252-2	12141-20-7	<0.05
125	Furan	203-727-3	110-00-9	<0.05
126	Diethyl sulphate	200-589-6	64-67-5	<0.05
127	Dimethyl sulphate	201-058-1	77-78-1	<0.05
128	3-Ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	421-150-7	143860-04-2	<0.05
129	Dinoseb/ 6-sec-butyl-2,4-dinitrophenol	201-861-7	88-85-7	<0.05
130	4,4'-Methylenedi-o-toluidine	212-658-8	838-88-0	<0.05



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				Whole Product
131	4,4'-Oxydianiline and its salts	202-977-0	101-80-4	<0.05
132	4-Aminoazobenzene	200-453-6	60-09-3	<0.05
133	4-Methyl-m-phenylenediamine/ Toluene-2,4-diamine	202-453-1	95-80-7	<0.05
134	6-Methoxy-m-toluidine/ p-Cresidine	204-419-1	120-71-8	<0.05
135	Biphenyl-4-ylamine	202-177-1	92-67-1	<0.05
136	o-Aminoazotoluene	202-591-2	97-56-3	<0.05
137	o-Toluidine	202-429-0	95-53-4	<0.05
138	N-methylacetamide	201-182-6	79-16-3	<0.05
139	Ammonium pentadecafluorooctanoate/ APFO	223-320-4	3825-26-1	<0.05
140	Pentadecafluorooctanoic acid/ PFOA	206-397-9	335-67-1	<0.05
141	Dipentyl phthalate/ DPP	205-017-9	131-18-0	<0.05
142	Cadmium Δ	231-152-8	7440-43-9	<0.05
143	4-Nonylphenol, branched and linear, ethoxylated/ NPEO	--	--	<0.05
144	Cadmium oxide Δ	215-146-2	1306-19-0	<0.05
145	Cadmium sulphide Δ	215-147-8	1306-23-6	<0.05
146	Dihexyl phthalate	201-559-5	84-75-3	<0.05
147	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate)/ C.I. Direct Red 28	209-358-4	573-58-0	<0.05
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	217-710-3	1937-37-7	<0.05
149	Imidazolidine-2-thione/ 2-imidazoline-2-thiol	202-506-9	96-45-7	<0.05
150	Lead di(acetate) Δ	206-104-4	301-04-2	<0.05
151	Trixylyl phosphate	246-677-8	25155-23-1	<0.05
152	Sodium peroxometaborate Δ	231-556-4	7632-04-4	<0.05
153	Cadmium chloride Δ	233-296-7	10108-64-2	<0.05
154	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	271-093-5	68515-50-4	<0.05
155	Sodium perborate; perboric acid, sodium salt Δ	239-172-9; 234-390-0	--	<0.05
156	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	247-384-8	25973-55-1	<0.05
157	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	223-346-6	3846-71-7	<0.05
158	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE) Δ	239-622-4	15571-58-1	<0.05
159	Cadmium fluoride Δ	232-222-0	7790-79-6	<0.05
160	Cadmium sulphate Δ	233-331-6	10124-36-4; 31119-53-6	<0.05





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No.	Chemical Substances	EC No.	CAS No.	Results % (w/w)
				Whole Product
161	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	-	-	<0.05
162	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 (EC No. 201-559-5)	271-094-0; 272-013-1	68515-51-5; 68648-93-1	<0.05
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 isomers of [1] and [2] or any combination thereof]	-	-	<0.05

Remark : SVHC = Substance of Very High Concern
 Δ = Determination was based on elemental analysis.

Materials were screened in composite and results were reported in proportion with the whole product weight.

The chemical substances listed in table above are the SVHC included in candidate list promulgated by European Chemicals Agency (ECHA) before and on Jun 15, 2015, which are defined in Article 57 of REACH Regulation (EC1907/2006).

REACH requirement : As per Article 33(1) of the REACH Regulation (EC1907/2006), recipients of product must be provided with information of safe use if any of the tested substances (SVHC) exceeded 0.1%(w/w). A product meets the requirement of Article 33(1) by default when no SVHC exceeds 0.1%(w/w).

Date sample received : Jun 18, 2015
Testing period : Jun 18, 2015 to Jun 26, 2015

End of report

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