

Test Report

Report No. TUV(I)/860/16-17/0041602273 B

Date : 04 May 2016



TUV INDIA PRIVATE LIMITED
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Name and address of customer : **ALPHA PLASTOMERS PVT. LTD.**
Plot No. 374, Alpha Industrial Park,
Athiawad, Dabhel, Daman – 396210
(U.T.) (INDIA)

Name of the sample : **LD Shrink Film**

Lab sample Id No. : **0041602273**

Mfg. date/Best before :

Batch No./ Code no. : **-**

Date of sample receipt : **21 Apr 2016**

Date(s) of analysis : **26 Apr 2016 -03 May 2016**

Objectives Of Examination :
To test for compliance with 168 Substance of Very High Concern(SVHC) as per candidate list promulgated by European Chemicals Agency(ECHA) which are defined in Article 57 of REACH Regulation(EC1907/2006)
Testing is Performed on individual component as per Customer's Request.

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) (i.e.1000 mg/kg)

Sample drawn by : **Customer**

Conclusion :

The submitted sample were Tested as and concentration of SVHC's are ≤ 0.1 %w/w considering the scope and analytical technique used

PASS

For detail Test Results refer further pages

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Sr. No.	Name of SVHC	CAS No.	EC. No.	Result	DL	Test Method
1	Ammonium Dichromate	7789-09-5	232-143-1	<50	50 mg/kg	Determined As Hexavalent Chromium by UV - Visible spectroscopy
2	Chromium Trioxide	1333-82-0	215-607-8			
3	Acids Generated from Chromium Trioxide and their Oligomers	---	---			
	a) Chromic Acid	7738-94-5	231-801-5,			
	b) Dichromic Acid	13530-68-2	236-881-5			
4	Strantium Chromate	7789-06-2	232-142-6			
5	Sodium Chromate	7775-11-3	231-889-5			
6	Sodium Dichromate	7789-12-0 / 10588-01-9	234-190-3			
7	Potassium Chromate	7789-00-6	232-140-5			
8	Potassium Dichromate	7778-50-9	231-906-6			
9	Dichromium Tris chromate	24613-89-6	246-356-2			
10	Potassium hydroxy octa oxo dizincate dichromate	11103-86-9	234-329-8			
11	Pentazinc Chromate Octahydrate	49663-84-5	256-418-0			
12	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	223-383-8	<10	10 mg/kg	Determined As Total Phenol by UV - Visible spectroscopy
13	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3	253-037-1	<10		
14	Lead Chromate Molybdate Sulphate	12656-85-8	235-759-9	<50	50 mg/kg	Determined as Lead, Molybdenum by ICP - MS and Cr (VI) by UV - Visible spectroscopy
15	Lead Chromate	7758-97-6	231-846-0			
16	Lead Sulfochromate	1344-37-2	215-693-7			
17	Lead bis(tetrafluoroborate)	13814-96-5	237-486-0			Determined as Lead and Boron
18	Lead titanium trioxide	12060-00-3	235-038-9			Determined as Lead and Titanium
19	Lead titanium zirconium oxide	12626-81-2	235-727-4			Determined as Lead and Titanium
20	Silicic acid, lead salt	11120-22-2	234-363-3			Determined as Lead and Silicon

21	Silicic acid (H ₂ Si ₂ O ₅), barium salt (1:1), lead-doped	68784-75-8	272-271-5	<50	50 mg/kg	Determined as Lead and Silicon
	[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]					
22	Pyrochlore, antimony lead yellow	8012-00-8	232-382-1			Determined as Lead and Antimony
23	Lead Diazide	13424-46-9	236-542-1	<50	50 mg/kg	Determined as Lead by ICP - MS
24	Lead monoxide (Lead oxide)	1317-36-8	215-267-0			
25	Orange lead (Lead tetroxide)	1314-41-6	215-235-6			
26	Trilead bis(carbonate)dihydroxide	1319-46-6	215-290-6			
27	Lead Dipicrate	6477-64-1	229-335-2			
28	Lead (II) bis (methane sulfonate)	17570-76-2	401-750-5			
29	Lead Styphnate	15245-44-0	239-290-0			
30	Acetic acid, lead salt, basic	51404-69-4	257-175-3			
31	Sulfurous acid, lead salt, dibasic	62229-08-7	263-467-1			
32	Tetraethyllead	78-00-2	201-075-4			
33	Tetralead trioxide sulphate	12202-17-4	235-380-9			
34	Trilead dioxide phosphonate	12141-20-7	235-252-2			
35	Lead oxide sulfate	12036-76-9	234-853-7			
36	[Phthalato(2-)]dioxotrilead	69011-06-9	273-688-5			
37	Dioxobis(stearato)trilead	12578-12-0	235-702-8			
38	Fatty acids, C16-18, lead salts	91031-62-8	292-966-7		50 mg/kg	

39	Lead cyanamidate	20837-86-9	244-073-9	<50	50 mg/kg	Determined as Lead by ICP - MS
40	Lead dinitrate	10099-74-8	233-245-9			
41	Pentalead tetraoxide sulphate	12065-90-6	235-067-7			
42	Lead di(acetate)	301-04-2	206-104-4			
43	Lead Hydrogen Arsenate	7784-40-9	232-064-2	<50		Determined as Lead, and Arsenic by ICP - MS
44	Tri Lead Diarsenate	3687-31-8	222-979-5			
45	Arsenic Acid	7778-39-4	231-901-9	<50	50 mg/kg	Determined as Arsenic by ICP - MS
46	Calcium Arsenate	7778-44-1	231-904-5			
47	Diarsenic Pentoxide	1303-28-2	215-116-9			
48	Diarsenic Trioxide	1327-53-3	215-481-4			
49	Tri Ethyl Arsenate	15606-95-8	427-700-2			
50	Cobalt Dichloride	7646-79-9	231-589-4	<50	50 mg/kg	Determined as Cobalt by ICP - MS
51	Cobalt (II) Carbonate	513-79-1	208-169-4			
52	Cobalt (II) Diacetate	71-48-7	200-755-8			
53	Cobalt (II) Dinitrate	10141-05-6	233-402-1			
54	Cobalt Sulphate	10124-43-3	233-334-2			
55	Boric acid	10043-35-3 / 11113-50-1	233-139-2, 234-343-4	<50	50 mg/kg	Determined as Boron by ICP - MS
56	Disodium Tetraborate, anhydrous	1303-96-4 / 1330-43-4 / 12179-04-3	215-540-4			
57	Diboron Trioxide	1303-86-2	215-125-8			
58	Tetraboron disodium heptoxide hydrate	12267-73-1	235-541-3			
59	Sodium Peroxometaborate	4/4/7632	231-556-4			
60	Sodium Perborate, Perboric acid, Sodium Salt		239-172-9; 234-390-0			
61	Cadmium*	7440-43-9	231-152-8	<10	10 mg/kg	Determined as Cadmium By ICP-MS
62	Cadmium Oxide*	1306-19-0	215-146-2			

63	Cadmium Sulphide*	1306-23-6	215-147-8	<10	10 mg/kg	Determined as Cadmium By ICP-MS
64	Cadmium Sulphate*	233-331-6	10124-36-4; 31119-53-6			
65	Cadmium Fluoride*	232-222-0	7790-79-6			
66	Cadmium Chloride*	10108-64-2	233-296-7			
67	2-Methoxy Ethanol	109-86-4	203-713-7	<50	50 mg/kg	Determined by GC - MS/HS
68	Methoxyacetic acid	625-45-6	210-894-6			
69	N,N-dimethylformamide	68-12-2	200-679-5			
70	1-bromopropane	106-94-5	203-445-0			
71	Furan	110-00-9	203-727-3			
72	2-Ethoxy Ethanol	110-80-5	203-804-1			
73	Trichloro Ethylene	79-01-6	201-167-4			
74	Acrylamide	79-06-1	201-173-7			
75	Formamide	75-12-7	200-842-0			
76	2 - Ethoxy Ethyl Acetate	111-15-9	203-839-2			
77	Hydrazine	7803-57-8 / 302-01-2	206-114-9	<50	50 mg/kg	Determined by GC - MS/HS
78	1-Methyl, 2 -Pyrolidone	872-50-4	212-828-1			
79	N,N' Dimethyl Acetamide	127-19-5	204-826-4			
80	2,4 - Dinitro Toluene	121-14-2	204-450-0			
81	1,2 Dichloro Ethane	107-06-2	203-458-1			
82	Bis - (2 Methoxy Ethyl) Ether	111-96-6	203-924-4			
83	1,2 - Dimethoxy Ethane	110-71-4	203-794-9			
84	1,2-diethoxyethane	629-14-1	211-076-1			
85	N-methylacetamide	79-16-3	201-182-6			
86	1,2 - Bis (2-methoxy Ethoxy) Ethane	112-49-2	203-977-3			
87	1,2,3 Trichloro Propane	96-18-4	202-486-1	<50	50 mg/kg	Extracted As per US - EPA 3500B and Determined by LC-MS
88	[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	219-943-6			

89	α,α -Bis[4-(dimethylamino)phenyl]-4-(phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4)	6786-83-0	229-851-8	<50	50 mg/kg	Extracted As per US - EPA 3500B and Determined by LC-MS
90	[4-[4,4'-bis(dimethylamino)benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3)	548-62-9	208-953-6			
91	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	217-710-3	<50	50 mg/kg	Extracted As per US - EPA 3500B and Determined by LC-MS
92	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	573-58-0	209-358-4			
93	Phenolphthalein	77-09-8	201-004-7			
94	Pentacosafuorotridecanoic acid	72629-94-8	276-745-2			
95	Tricosafuorododecanoic acid	307-55-1	206-203-2			
96	Henicosafuoroundecanoic acid	2058-94-8	218-165-4			
97	Heptacosafuorotetradecanoic acid	376-06-7	206-803-4	<50	50 mg/kg	Extracted As per US - EPA 3500B and Determined by LC-MS
98	Pentadecafluoro Octanoic Acid	335-67-1	206-379-9			
99	Ammonium Pentadecafluoro-octanoate	3825-26-1	223-320-4			
100	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	204-650-8			

101	4-Nonylphenol, branched and linear ethoxylates	-	-	<50	50 mg/kg	Extracted As per US - EPA 3500B and Determined by LC-MS
	[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]					
102	4-Nonylphenol, branched and linear ethoxylates (As per Decision no ED/69/2013)	-	-			
103	4-(1,1,3,3-tetramethylbutyl) phenol, ethoxylated	140-66-9	205-426-2	<50	50 mg/kg	Extracted As per US - EPA 3500B and Determined by LC-MS
	[covering well-defined substances and UVCB substances, polymers and homologues]					
104	Imidazolidine-2-thione; (2-imidazoline-2-thiol)	96-45-7	202-506-9			
105	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	223-346-6			
106	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	247-384-8			
107	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	15571-58-1	239-622-4	<50	50 mg/kg	Extracted As per US - EPA 3500B and Determined by LC-MS
108	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)					

109	Anthracene	120-12-7	204-371-1	<50	50 mg/kg	Extracted As per US - EPA 3500B and Determined by GC - MS
110	Anthracene Oil	90640-80-5	292-602-7			
111	Anthracene Oil, Anthracene Paste, distn. Light	91995-17-4	295-278-5			
112	Anthracene Oil, Anthracene Paste, Anthracene Fraction	91995-15-2	295-275-9			
113	Anthracene Oil, Anthracene Low	90640-82-7	292-604-8			
114	Anthracene Oil, Anthracene Paste	90640-81-6	292-603-2	<50	50 mg/kg	Extracted As per US - EPA 3500B and Determined by GC - MS/MS
115	Coal tar Pitch High Temperature	65996-93-2	266-028-2			
116	Di-Isobutyl Phthalate	84-69-5	201-553-2	<50		
117	Di-Butyl Phthalate	84-74-2	201-557-4			
118	Bis - 2-methoxyethyl Phthalate	117-82-8	204-212-6			
119	Bis - (2 Ethyl Hexyl) Phthalate	117-81-7	204-211-0			
120	Dihexyl phthalate	84-75-3	201-559-5			
121	Benzyl Butyl Phthalate	85-68-7	201-622-7			
122	1-2 Benzene di carboxylic acid di C7-C11 Branched and Linear Alkyl Esters	68515-42-4	271-084-6	<50	50 mg/kg	Extracted As per US - EPA 3500B and determined by GCMS
123	1-2 Benzene di carboxylic acid di C6-C8 Branched Alkyl Esters, C7 Rich	71888-89-6	276-158-1			
124	1-2 Benzene di carboxylic acid di C6-C10 Alkyl Esters (as per descission no. ED/2015/06/15)	68515-51-5	271-094-0			
125	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	284-032-2			
126	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	271-093-5			

127	Diisopentylphthalate (DIPP)	605-50-5	210-088-4	<50	50 mg/kg	Extracted As per US - EPA 3500B and determined by GCMS
128	N-pentyl-isopentylphthalate	776297-69-9	-			
129	Di Pentyl Phthalate	131-18-0	205-017-9			
130	Trixylyl phosphate	25155-23-1	246-677-8			
131	Tris (2 - Chloro Ethyl) phosphate	115-96-8	204-118-5			
132	5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane	---	---			
133	4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	90-94-8	202-027-5	<50	50 mg/kg	Extracted As per US - EPA 3500B and determined by LCMS
134	1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC)	2451-62-9	219-514-3			
135	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	423-400-0			
136	4,4'-methylenedi- <i>o</i> -toluidine	838-88-0	212-658-8			
137	4,4'-oxydianiline and its salts	101-80-4	202-977-0			
138	4-aminoazobenzene	60-09-3	200-453-6			
139	6-methoxy- <i>m</i> -toluidine (p-cresidine)	120-71-8	204-419-1			
140	<i>o</i> -aminoazotoluene [(4- <i>o</i> -tolylazo- <i>o</i> -toluidine)]	97-56-3	202-591-2			
141	<i>o</i> -toluidine	95-53-4	202-429-0			
142	Formaldehyde Oligomeric Reaction Products with Aniline (Technical MDA)	25214-70-4	500-036-1			
143	Perfluorononan-1-oic-acid and its sodium and ammonium salts	375-95-1 21049-39-8 4149-60-4	206-801-3	<1	1 mg/kg	

144	4,4' Diamono Diphenyl Methane	101-77-9	202-974-4	<50	50 mg/kg	Extracted As per US - EPA 3500B and determined by GCMS			
145	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol [with $\geq 0.1\%$ of Michler's ketone]	561-41-1	209-218-2						
146	2,2' Dichloro - 4,4' Methylene Dianiline	101-14-4	202-918-9						
147	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	421-150-7						
148	Dinoseb (6-sec -butyl-2,4-dinitrophenol)	88-85-7	201-861-7						
149	4-methyl- <i>m</i> -phenylenediamine (toluene-2,4-diamine)	95-80-7	202-453-1						
150	Biphenyl-4-ylamine	92-67-1	202-177-1						
151	2 Methoxy Aniline,O-Anisidine	90-04-0	201-963-1						
152	5-tert. Butyl - 2,6 Dinitro , <i>m</i> -Xylene (Musk xylene)	81-15-2	201-329-4						
153	Hexabromo Cyclododecane (Including Isomers)	25637-99-4	247-148-4 and 221-695-9						
154	N,N,N',N' - tetramethyl-4,4'-methylenedianiline (Michler's Base)	101-61-1	202-959-2						
155	Bis (Tributyltin) oxide (TBTO)	56-35-9	200-268-0						
156	4 - tert. Octyl Phenol	140-66-9	205-426-2				<50	50 mg/kg	Extracted As per US - EPA 3500B and determined by GCMS
157	Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE)	1163-19-5	214-604-9						
158	Dibutyltin dichloride (DBTC)	683-18-1	211-670-0						
159	Methyloxirane (Propylene oxide) as Propylene Glycol	75-56-9	200-879-2						
160	Diethyl sulphate	64-67-5	200-589-6						
161	Dimethyl sulphate	77-78-1	201-058-1						
162	1,3-propanesultone	1120-71-4	214-317-9						
163	Nitrobenzene	98-95-3	202-716-0	<10	10 mg/kg				

164	Cyclohexane-1,2-dicarboxylic anhydride [1]	85-42-7, 13149-00-3, 14166-21-3	201-604-9, 236-086-3, 238-009-9	<50	50 mg/kg	Extracted As per US - EPA 3500B and determined by LCMS
	cis-cyclohexane-1,2-dicarboxylic anhydride [2]					
	trans-cyclohexane-1,2-dicarboxylic anhydride [3]					
	<i>[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].</i>					
165	Hexahydromethylphthalic anhydride [1],	25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9	247-094-1, 243-072-0, 256-356-4, 260-566-1	<50	50 mg/kg	Extracted As per US - EPA 3500B and determined by GCMS
	Hexahydro-4-methylphthalic anhydride [2],					
	Hexahydro-1-methylphthalic anhydride [3],					
	Hexahydro-3-methylphthalic anhydride [4]					
	<i>[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]</i>					
166	Alkanes C10-C13 Chloro (Short chain Chlorinated Paraffins)	85535-84-8	287-476-5	<0.01	0.01 % (w/w)	Extracted As per US - EPA 3500B and determined by GCMS
167	Zirconia Alumino Silicate Refractory Fibres	---	---			Determined As Acid insoluble Ash and confirmed with Microscopic Examination
168	Alumino Silicate Refractory Fibres	---	---			

Note:

- 1) DL = Detection Limit
- 2) *Limit for Cadmium and Cadmium Compounds Expressed as Cadmium is 100mg/kg max.
- 3) The substances in the candidates list of Substances of Very High Concern (SVHC) for Registration Evaluation Authorisation of Chemicals (REACH) is published by ECHA (European Chemical Agency) consists of different combinations of compounds falling under category of UVCB Substances i.e. Substances of Unknown or Variable Composition, Complex reaction products or Biological Material.
- 4) The Test result is calculated as per selected identifiers of the SVHC and Calculations are based on worst case scenario
- 5) Considering UVCB nature, sample results may be termed as Semi-quantitative.



Sample Images is Authentic only for the original test report.

Verified by
(Atulkumar Rajage)
In Charge - Liquid Chromatography

Authorized by
(Dr. Bharat Ugare)
In Charge - Instrumentation GC

1. Test Results are based on & related only to the particular sample(s) tested.
2. This Report cannot be re-produced, except when in full, without the written permission from TUV India Pvt. Ltd., Laboratory Division.
3. This Certificate reflects our findings at the time and place of testing.
4. Sample(s) will be retained by us for a period of one month for non-perishable items only. Perishable items will be destroyed after completion of tests.
5. This Report, in full or in part, shall not be used to make any misleading claims or for any legal purposes.

End of Report