

Test Report

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KUANG LUNG SHING CORPORATION

www.kls.com.tw 3F, No. 295, Sec.2, Hsingren Rd., Chungli, Taoyuan, Taiwan



The following sample(s) was/were submitted and identified by/on behalf of the client as :

Sample Description : POLY U COLOR®
Style/Item No. : U-301 BLACK
Sample Receiving Date : 2010/05/13
Testing Period : 2010/05/13 TO 2010/05/20

=====
Test Result(s) : Please refer to next page(s).



Chenyu Kung / Operation Manager
Signed for and on behalf of
SGS TAIWAN LTD.
Chemical Laboratory – Taipei

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Test Result(s)

PART NAME NO.1 : BLACK PASTE

Test Item (s):	Unit	Method	MDL	Result
				No.1
Anthracene (CAS No.: 000120-12-7)	mg/kg	With reference to ZEK 01.2-08. Analyzed by GC/MS.	0.2	n.d.
4,4' - Diaminodiphenylmethane (CAS No.: 000101-77-9)	mg/kg	With reference to EN 14362-1: 2003. Analyzed by GC/MS.	3	n.d.
BBP (Benzyl butyl phthalate) (CAS No.: 000085-68-7)	%	With reference to EN 14372. Analyzed by GC/MS.	0.003	n.d.
DEHP (Di- (2-ethylhexyl) phthalate) (CAS No.: 000117-81-7)	%	With reference to EN 14372. Analyzed by GC/MS.	0.003	n.d.
5-tert-butyl-2,4,6-trinitro- m-xylene (Musk Xylene) (CAS No.: 000081-15-2)	mg/kg	With reference to US EPA 3550C: 1996. Analyzed by GC/MS.	10	n.d.
Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α - HBCDD, β - HBCDD, γ - HBCDD) (CAS No.: 025637-99-4 and 003194-55-6 (134237-51-7, 134237-50- 6, 134237-52-8))	mg/kg	With reference to US EPA 3540C: 1996. Analyzed by GC/MS.	5	n.d.
Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins) (CAS No.: 085535-84-8)	mg/kg	With reference to US EPA 3540C: 1996. Analyzed by GC/MS.	100	n.d.
Bis(tributyltin)oxide*** (CAS No.: 000056-35-9)	mg/kg	With reference to ISO 17353: 2004. Analyzed by GC/FPD.***	-	n.d.
Cobalt dichloride (CAS No.: 007646-79-9)	mg/kg	SGS In-House method-RSTS-EE-SVHC-003, RSTS-EE-SVHC-004. Analyzed by ICP-AES.	5	n.d.
Diarsenic pentaoxide*** (CAS No.: 001303-28-2)	mg/kg	With reference to US EPA 3052: 1996. Analyzed by ICP-AES.***	-	n.d.
Diarsenic trioxide*** (CAS No.: 001327-53-3)	mg/kg	With reference to US EPA 3052: 1996. Analyzed by ICP-AES.***	-	n.d.
Triethyl arsenate*** (CAS No.: 015606-95-8)	mg/kg	With reference to US EPA 3052: 1996. Analyzed by ICP-AES.***	-	n.d.

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Test Item (s):	Unit	Method	MDL	Result
				No.1
Lead hydrogen arsenate*** (CAS No.: 007784-40-9)	mg/kg	With reference to US EPA 3052: 1996. Analyzed by ICP-AES.***	-	n.d.
Sodium dichromate*** (CAS No.: 010588-01-9(**))	mg/kg	With reference to US EPA 3060A: 1996. Analyzed by UV-Vis.***	-	n.d.
Anthracene oil (CAS No.: 090640-80-5) (**)	mg/kg	With reference to ZEK 01.2-08. Analyzed by GC/MS.	500	n.d.
Anthracene oil, anthracene paste, distn. Lights (CAS No.: 091995-17-4) (**)	mg/kg	With reference to ZEK 01.2-08. Analyzed by GC/MS.	500	n.d.
Anthracene oil, anthracene paste, anthracene fraction (CAS No.: 091995- 15-2) (**)	mg/kg	With reference to ZEK 01.2-08. Analyzed by GC/MS.	500	n.d.
Anthracene oil, anthracene-low (CAS No.: 090640-82-7) (**)	mg/kg	With reference to ZEK 01.2-08. Analyzed by GC/MS.	500	n.d.
Anthracene oil, anthracene paste (CAS No.: 090640-81-6) (**)	mg/kg	With reference to ZEK 01.2-08. Analyzed by GC/MS.	500	n.d.
Pitch, coal tar, high-temp. (CAS No.: 065996-93-2) (**)	mg/kg	With reference to ZEK 01.2-08. Analyzed by GC/MS.	500	n.d.
Aluminosilicate, Refractory Ceramic Fibres	mg/kg	SGS In-House method-RSTS-EE-SVHC- 003, RSTS-EE-SVHC-004. Analyzed by gravimetric method, ICP-AES.	500	n.d.
Zirconia Aluminosilicate, Refractory Ceramic Fibres	mg/kg	SGS In-House method-RSTS-EE-SVHC- 003, RSTS-EE-SVHC-004. Analyzed by gravimetric method, ICP-AES.	500	n.d.
DIBP (Di-isobutyl phthalate) (CAS No.: 000084-69-5)	mg/kg	With reference to EN 14372. Analyzed by GC/MS.	30	n.d.
2,4-Dinitrotoluene (CAS No.: 000121- 14-2)	mg/kg	With reference to US EPA 3550C method. Analysis was performed by GC/MS.	50	n.d.
Tris(2-chloroethyl) phosphate (TCEP) (CAS No.: 000115-96-8)	mg/kg	With reference to US EPA 3550C method. Analysis was performed by GC/MS.	50	n.d.
Lead chromate (CAS No.: 007758-97-6)	mg/kg	SGS In-House method-RSTS-EE-SVHC- 003, RSTS-EE-SVHC-004. Analyzed by UV-VIS, ICP-AES.	100	n.d.

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Test Item (s):	Unit	Method	MDL	Result
				No.1
Lead chromate molybdate sulphate red (C.I. Pigment Red 104) (CAS No.: 012656-85-8)	mg/kg	SGS In-House method-RSTS-EE-SVHC-003, RSTS-EE-SVHC-004. Analyzed by UV-VIS, ICP-AES.	100	n.d.
Lead sulfochromate yellow (C.I. Pigment Yellow 34) (CAS No.: 001344-37-2)	mg/kg	SGS In-House method-RSTS-EE-SVHC-003, RSTS-EE-SVHC-004. Analyzed by UV-VIS, ICP-AES.	100	n.d.
Acrylamide (CAS No.: 000079-06-1)	mg/kg	With reference to US EPA 3550C method. Analysis was performed by LC/MS.	50	n.d.

Note :

1. mg/kg = ppm; 0.1wt% = 1000ppm
2. n.d.= not detected = below Method detection Limit
3. MDL = Method Detection Limit
4. " - " = Not Regulated
5. (*): conc. of Sodium dichromate dihydrate (CAS No.: 007789-12-0) = conc. of sodium dichromate × 1.1374
6. (**): The concentrations of above-mentioned mixtures are evaluated per the gained composition rate between the selected marks and the mixtures.
7. ***: The substance was calculated by the test results of Tributyl Tin or element (Ex. Arsenic, Lead or Cr(VI) respectively).
The MDL is evaluated for Tributyl Tin or element (Ex. Arsenic, Lead or Cr(VI) respectively).

$$AX = A \times F$$

AX	A	F
Diarsenic pentaoxide	Arsenic	1.5339
Diarsenic trioxide		1.3203
Triethyl arsenate		3.0179
Lead hydrogen arsenate		4.6332
	Lead	1.6753
Sodium dichromate	Hexavalent Chromium Cr(VI)	2.5192
Bis(tributyltin)oxide	Tributyl Tin (TBT)	1.0276

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Regarding lead hydrogen arsenate lead and arsenic are tested and used for the calculation of the separated concentration of lead hydrogen arsenate. The final concentration of lead hydrogen arsenate for the report uses the minimum value of above-mentioned two concentration of lead hydrogen arsenate.

The test result is given as:

Test Item (s):	Unit	Method	MDL	Result
				No.1
Tributyl Tin (TBT) (CAS No.: 000688-73-3)	mg/kg	With reference to ISO 17353: 2004. Analyzed by GC/FPD.	0.03	n.d.
Arsenic (As)	mg/kg	With reference to US EPA 3052: 1996. Analyzed by ICP-AES.	2	n.d.
Lead (Pb)	mg/kg	With reference to US EPA 3052: 1996. Analyzed by ICP-AES.	2	n.d.
Hexavalent Chromium Cr(VI)	mg/kg	With reference to US EPA 3060A: 1996. Analyzed by UV-Vis.	2	n.d.

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** End of Report **

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