



LEE FUNG NEW MATERIAL TECHNOLOGY (SHEN ZHEN)CO.,LTD

Technical Report: (8818)185-0004

Jul 10, 2018

Date Received: Jul 4, 2018

Page 1 of 8

LEE FUNG NEW MATERIAL TECHNOLOGY (SHEN ZHEN)CO.,LTD
UNITA,6/F.,BLOCK C9,MEI HUA MEI INDUSTRIAL PARK,ZHENMEI COMMUNITY,GUANBMING NEW DISTRICT,SHENZHEN,P.R.CHINA

Sample Description:	PIGMENT	Sample Size:	1
Vendor:	N/A	Style No(s):	SEE ATTACHMENT
Manufacturer:	N/A	SKN/SKU No.:	NOT PROVIDE
Buyer:	N/A	PO No.:	NOT PROVIDE
Labeled Age Grade:	NOT RECORD	Ref #:	NOT PROVIDE
Appropriate Age Grade:	NOT REQUESTED	Country of Origin:	NOT PROVIDE
Client Specified Age Grade:	NOT SPECIFIED	Assortment No.:	NOT PROVIDE
Grade:		Test Finished Date:	JUL 10, 2018
Tested Age Grade:	N/A		
UPC Code:	N/A		
Test Starting Date:	JUL 4, 2018		

EXECUTIVE SUMMARY:

The sample(s) MEETS the following requirement(s):

- The BBP, DBP and DEHP content requirements of the European Regulation (EC) No. 1907/2006 of the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), Annex XVII concerning the Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles, Item no. 51.
- The DNOP, DINP and DIDP content requirements of the European Regulation (EC) No. 1907/2006 of the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), Annex XVII concerning the Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles, Item no. 52.

To be continued

BUREAU VERITAS SHENZHEN CO.,LTD
DONGGUAN BRANCH

Harvey Xue
Manager, Analytical Lab

RT/EL/JO

REMARK

If there are questions or concerns on this report, please contact the following persons:

Report Enquiry: (86) 0769 89952999 Ext. 8175 CPSAnalytical.DG@cn.bureauveritas.com

Business Contact: (86) 0769 85893595

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LEE FUNG NEW MATERIAL TECHNOLOGY (SHEN ZHEN)CO.,LTD

Technical Report: **(8818)185-0004**

Jul 10, 2018

Page 2 of 8

EXECUTIVE SUMMARY:

The sample(s) MEETS the following requirement(s):

- The heavy metals and flame retardants content requirements of the European Council Directive 2011/65/EU on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS).
- The BBP/DBP/DEHP/DIBP content requirements of the European Council Directive 2011/65/EU on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS) with its amendments.

ATTACHMENT:

Style No(s):

STF220、ST221、ST217N、STS218/A、ST219A、STF311、ST312、STF413、ST416A、ST417、ST418、
STS420、ST511、ST611、ST612、STB613、ST613、ST614、ST711、ST712A、ST713、ST715A、ST717、
OR262/A/D、OR263、OR266N、OR267/B、OR272、OR275、OR284、OR285、OR361A、OR362C、OR461、
OR462、OR463、OR468、OR482、OR483、OR492、OR561、OR566/P、OR662N、OR666、OR674、OR761、
OR762/A、OR764A、FT2019N、FT3022、FT3023、FT3027、FT3028、FT3029、FT3030、FT3031、FT3032、
FT9001Y、FT9002R、FT9003/J、FT9004、IN132(902)、IN232A、IN237、IN433、IN441、IN442、IN631/C、
IN632、IN733F、IN834、IN934(RCL69)、IN935(CR834)、IN936、R248、IN1301、IN1302A、IN8303、IN8304、
GD037、226H、GD423B、602H、GD610、618、660R、705A、716、758、737、803、733、NP-B4、PLBA、
EBS SF、SW100、SW111、SW120、SW153、SW163、8004、8001、PE、ABS、HIPS、PLA、PCL、
FLEXIBLE、PC、TPU、PETG

Tested Component(s) Description List:

Test Item(s)	Item / Component Description(s)	Location(s)	Style(s)
I001	Brown powder	Powder	-



LEE FUNG NEW MATERIAL TECHNOLOGY (SHEN ZHEN)CO.,LTD

Technical Report: **(8818)185-0004**

Jul 10, 2018

Page 3 of 8

RESULTS:

BBP/DBP/DEHP Contents in Toys and Childcare Articles – European Regulation (EC) No. 1907/2006 REACH Annex XVII, Item no. 51

Test Method : Sample was extracted with organic solvent and then analyzed by Gas Chromatograph Mass Spectrometer.

Test Parameter:	BBP	DBP	DEHP	SUM	-
Limit (%):	0.1 (Sum of three phthalates)				-
Test Item(s)	Result (%)				Conclusion
I001	ND	ND	ND	ND	PASS

Note / key:

BBP = Butyl benzyl phthalate

DBP = Dibutyl phthalate

DEHP = Di(2-ethylhexyl) phthalate

ND = Not detected

% = percent

10000 mg/kg = 1 %

mg/kg = milligram(s) per kilogram

Detection Limit (%) : Each 0.005

DNOP/DINP/DIDP Contents in Toys and Childcare Articles which can be placed in the Mouth by the Children – European Regulation (EC) No. 1907/2006 REACH Annex XVII, Item no. 52

Test Method : Sample was extracted with organic solvent and then analyzed by Gas Chromatograph Mass Spectrometer.

Test Parameter:	DIDP	DINP	DNOP	SUM	-
Limit (%):	0.1 (Sum of three phthalates)				-
Test Item(s)	Result (%)				Conclusion
I001	ND	ND	ND	ND	PASS

Note / key:

DNOP = Di-n-octyl phthalate

DINP = Di-iso-nonyl phthalate

DIDP = Di-iso-decyl phthalate

ND = Not detected

% = percent

10000 mg/kg = 1 %

mg/kg = milligram(s) per kilogram

Detection Limit (%) : Each 0.005



LEE FUNG NEW MATERIAL TECHNOLOGY (SHEN ZHEN)CO.,LTD

Technical Report: **(8818)185-0004**

Jul 10, 2018

Page 4 of 8

RESULTS:

Heavy Metals and Flame Retardants Content – European Council Directive 2011/65/EU on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS)

Test Method : See Appendix.

See Analytes (Parameter) and their corresponding Maximum Allowable Limit (Req.) in Result Table	Type I	Metallic material
	Type II	Glass or ceramic material
	Type III	Other non-metallic material except Type II

-	Unit	Req.	Result
Test Item(s)	-	-	I001
Type	-	III	III
Parameter	-	-	-
Lead (Pb)	mg/kg	1000	ND
Cadmium (Cd)	mg/kg	100	ND
Mercury (Hg)	mg/kg	1000	ND
Chromium VI (Cr VI)	mg/kg	1000	ND
PBBs	mg/kg	1000	ND
MonoBB	mg/kg	-	ND
DiBB	mg/kg	-	ND
TriBB	mg/kg	-	ND
TetraBB	mg/kg	-	ND
PentaBB	mg/kg	-	ND
HexaBB	mg/kg	-	ND
HeptaBB	mg/kg	-	ND
OctaBB	mg/kg	-	ND
NonaBB	mg/kg	-	ND
DecaBB	mg/kg	-	ND
PBDEs	mg/kg	1000	ND
MonoBDE	mg/kg	-	ND
DiBDE	mg/kg	-	ND
TriBDE	mg/kg	-	ND
TetraBDE	mg/kg	-	ND
PentaBDE	mg/kg	-	ND
HexaBDE	mg/kg	-	ND
HeptaBDE	mg/kg	-	ND
OctaBDE	mg/kg	-	ND
NonaBDE	mg/kg	-	ND
DecaBDE	mg/kg	-	ND
Conclusion	-	-	PASS



LEE FUNG NEW MATERIAL TECHNOLOGY (SHEN ZHEN)CO.,LTD

Technical Report: **(8818)185-0004**

Jul 10, 2018

Page 5 of 8

RESULTS:

Note / key:

ND = Not detected

">" = Greater than

Req. = Requirement

NR = Not requested

mg/kg = milligram(s) per kilogram = ppm = part(s) per million

NA = Not Applicable

10000 mg/kg = 1 %

% = percent

Detection Limit (mg/kg) :

For Type I: Each (Pb, Cd & Hg) 10

For Type II: Each (Pb, Cd, Hg & Cr VI) 10

For Type III: Polymers & Electronics - Each (Pb, Cd, Hg & Cr VI): 10; Each (PBBs & PBDEs): 50

Others - Each (Pb, Cd & Hg): 10; Cr VI: 3.0; Each (PBBs & PBDEs): 50

Remark:

- The list of analytes is summarized in table of Appendix.
- According to European Council Directive 2011/65/EU, Article 5 "Adaptation of the Annexes to scientific and technical progress", exemption(s) should be granted to the materials and components of Test Item(s) in the lists in Annexes III and IV of this directive.

APPENDIX:

List of Analytes and their Corresponding Test Methods [European Council Directive 2011/65/EU] :		
No.	Name of Analytes	Test Method(s)
1	Lead (Pb)	With reference to International Standard IEC 62321-5: 2013.
2	Cadmium (Cd)	
3	Mercury (Hg)	With reference to International Standard IEC 62321-4: 2017.
4	Chromium VI (Cr VI)	Metal : With reference to International Standard IEC 62321-7-1: 2015. Polymers and Electronics : With reference to European Standard EN 62321-7-2: 2017. Leather : International Standard ISO 17075-1:2017. Other than Metal, Leather, Polymers and Electronics: With reference to International Standard ISO 17075-1:2017.
5	Polybromobiphenyls (PBBs) - Bromobiphenyl (MonoBB) - Dibromobiphenyl (DiBB) - Tribromobiphenyl (TriBB) - Tetrabromobiphenyl (TetraBB) - Pentabromobiphenyl (PentaBB) - Hexabromobiphenyl (HexaBB) - Heptabromobiphenyl (HeptaBB) - Octabromobiphenyl (OctaBB) - Nonabromobiphenyl (NonaBB) - Decabromobiphenyl (DecaBB)	With reference to International Standard IEC 62321-6: 2015.
6	Polybromodiphenyl ethers (PBDEs) - Bromodiphenyl ether (MonoBDE) - Dibromodiphenyl ether (DiBDE) - Tribromodiphenyl ether (TriBDE) - Tetrabromodiphenyl ether (TetraBDE) - Pentabromodiphenyl ether (PentaBDE) - Hexabromodiphenyl ether (HexaBDE) - Heptabromodiphenyl ether (HeptaBDE) - Octabromodiphenyl ether (OctaBDE) - Nonabromodiphenyl ether (NonaBDE) - Decabromodiphenyl ether (DecaBDE)	
[a]	The principle of this method was evaluated and supported by two studies organized by IEC TC 111 WG3. These studies were focused on detecting the presence of Cr VI in the corrosion protection coatings on metallic samples.	



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Technical Report: **(8818)185-0004**

Jul 10, 2018

Page 7 of 8

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BBP/DBP/DEHP/DIBP Content – European Council Directive 2011/65/EU on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS) with its Amendments

Test Method : Sample was extracted with organic solvent and then analyzed by Gas Chromatograph Mass Spectrometer.

Test Parameter:	BBP	DBP	DEHP	DiBP	-
Limit (%):	0.1	0.1	0.1	0.1	-
Test Item(s)	Result (%)				Conclusion
I001	ND	ND	ND	ND	PASS

Note / key:

BBP = Butyl benzyl phthalate (CAS No: 85-68-7) DBP = Dibutyl phthalate (CAS No: 84-74-2)
DEHP = Di(2-ethylhexyl) phthalate (CAS No: 117-81-7) DiBP = Diisobutyl phthalate (CAS No: 84-69-5)
ND = Not detected % = percent 10000 mg/kg = 1 %
mg/kg = milligram(s) per kilogram
Detection Limit (%) : Each 0.005

Remark:

- The amendment will be effective on 22 July 2019. For medical devices and control instruments, effective date will be 22 July 2021.



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Jul 10, 2018

Page 8 of 8

RESULTS:



END OF REPORT