



**BUREAU  
VERITAS**

# TEST REPORT

LAB NO. : (6616)190-0495  
DATE : July 13, 2016  
PAGE : 1 OF 5

Applicant:  
**SHANGHAI EXCILON NEW MATERIALS CO., LTD**  
128 TONGYE RD, JINSHAN INDUSTRIAL PARK, SHANGHAI

Date of Submission: July 8, 2016  
Test Period: July 8, 2016 to July 13, 2016

Sample Description: Sample(s) received is(are) stated to be Excilon ceramic coating  
Test Item(s): Details see page 2

Manufacturer: SHANGHAI EXCILON NEW MATERIALS CO., LTD      Style No(s): 2020 Black  
Buyer: /      PO No.: /  
Country of Origin: /      Country of Destination: /

## SUMMARY OF TEST RESULTS

TEST REQUESTED	CONCLUSION
European Parliament and Council Directive 2011/65/EU on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS) with its Amendments	PASS

Note: The tested part of the sample was specified by client.  
The test conclusion was given based on the results of tested part.

### REMARK

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

General enquiry and invoicing

Mr. Speed Yu/ Ms. Joanna Chen  
(021) 24166888\*6832/6849

Technical enquiry

Speed.yu @cn.bureauveritas.com/ Joan.chen@cn.bureauveritas.com  
Mr. Gorden Yu/ Ken He  
(021) 24166888\*6852/6859  
Gorden.yu @cn.bureauveritas.com/ Kenny.he@cn.bureauveritas.com

**BUREAU VERITAS  
CONSUMER PRODUCTS SERVICES DIVISION (SHANGHAI)**

PREPARED BY : Lily/JoJo

Gorden Yu  
Analytical Lab Manager

RW/2016

Bureau Veritas  
Consumer Products Services Division (Shanghai)  
No. 168, Guanghua Road, Zhuanqiao Town, Minhang,  
Shanghai, China. Post Code: 201108  
Tel: 86-21-24081888 Fax: 86-21-64895  
Email: [bvcps\\_sh\\_info@cn.bureauveritas.com](mailto:bvcps_sh_info@cn.bureauveritas.com)  
Http: [www.cps.bureauveritas.com](http://www.cps.bureauveritas.com)

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**Sample Description Assigned by Laboratory:**

Test Item	Description
1	Black liquid

Note / Key:

ND = Not detected

mg/kg = milligram(s) per kilogram

">" = Greater than

Req. = Requirement

EX = Exempted

**Photo of the Submitted Sample**





**TEST RESULT**

**European Parliament and 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 : See Appendix.

-	Unit	Maximum Allowable Limit (Req.)	Result	
<b>Test Item</b>	-	-	<b>1</b>	
<b>Parameter</b>	-	-	-	
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	
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	
Sum of PBBs	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		
Sum of PBDEs	mg/kg	1000	ND	
<b>Conclusion</b>	-	-	<b>PASS</b>	

Note / Key :

Detection Limit (mg/kg) : Each (Pb, Cd, Hg & Cr VI) 2; Each PBB 5; Each PBDE 5

Remark :

- The list of analytes is summarized in table of Appendix.
- The test flowchart of heavy metals and flame retardants content is listed in table of Appendix.
- Result(s) of Cr VI for metallic material(s) was (were) expressed in term of positive and negative. Negative means the absence of Cr VI on the tested areas and the result(s) was (were) regarded as in compliance with European Parliament and Council Directive 2011/65/EU, Article 4(1). While, positive means the presence of Cr VI on tested areas and the result(s) was (were) regarded as in conflict with European Parliament and Council Directive 2011/65/EU, Article 4(1).
- According to European Parliament and 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.

END



### APPENDIX

List of Analytes and their Corresponding Test Methods [ European Parliament and Council Directive 2011/65/EU ] :		
No.	Name of Analytes	Test Method(s)
1	Lead (Pb)	With reference to IEC 62321-5: 2013.
2	Cadmium (Cd)	
3	Mercury (Hg)	
4	Chromium VI (Cr VI)	<u>Metal</u> : With reference to IEC 62321-7-1: 2015. <u>Polymers &amp; Electronics</u> : With reference to EN 62321: 2009, Annex C.
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 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)	

APPENDIX

Test Flowchart of Heavy Metals and Flame Retardants Content [ European Parliament and Council Directive 2011/65/EU ] :

