

# TEST REPORT

Report No.: R1SZ2-200403-03312E

Date: April 17, 2020

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Toyoda Gosei Co., Ltd  
Haruhinagahata, Kiyosu, Aichi 452-8564 Japan

Report on the submitted samples said to be:

Sample Description: SMD PCT LED

Tested Style/Item No.: 2835

Additional Style/ Item No.: 2016、3528、3014、4014、3030、5050、5630、5730、4010、2110

Remark: As claimed by the material declaration submitted by the client, the material of Additional Style/ Item No. are the same as the tested Style/ Item No. . But the results only for the tested sample. And the applicant will undertake all differences and risk.

Sample Receiving Date: April 03,2020

Testing Period: April 03,2020 - April 16,2020

Result: **Pass**

Signed for and on behalf of

BACL



Checked by: \_\_\_\_\_  
May Chen



Approved by: \_\_\_\_\_  
Lance Lee



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Summary of Test Result:

**TEST REQUEST**

**CONCLUSION**

A RoHS Directive 2011/65/EU and amendment directives (EU) 2015/863 on Lead, Cadmium, Mercury, Hexavalent Chromium, PBBs & PBDEs, Phthalates(DBP, BBP, DEHP, DIBP) content

A.1 Wet Chemical Testing

A.1.1 Total Lead content Pass

A.1.2 Total Cadmium content Pass

A.1.3 Total Mercury content Pass

A.1.4 Chromium VI (CrVI) content Pass

A.1.5 PBBs & PBDEs content Pass

A.2 Phthalates(DBP, BBP, DEHP, DIBP)content Pass



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**Result:**

Tested part(s):

(1) White / orange plastic (LED)

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FINAL

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A RoHS Directive 2011/65/EU and amendment directives (EU) 2015/863 on Lead, Cadmium, Mercury, Hexavalent Chromium, PBBs & PBDEs, Phthalates(DBP, BBP, DEHP, DIBP) content

## A.1 Wet Chemical Testing

### A.1.1 Total Lead content

Test method: IEC 62321-5:2013

Item	Unit	MDL	Result	Limit
			(1)	
Lead(Pb)	mg/Kg	10	N.D.	1000
Conclusion	/	/	Pass	/

### A.1.2 Total Cadmium content

Test method: IEC 62321-5:2013

Item	Unit	MDL	Result	Limit
			(1)	
Cadmium(Cd)	mg/Kg	10	N.D.	100
Conclusion	/	/	Pass	/

### A.1.3 Total Mercury content

Test method: IEC 62321-4:2013+AMD1:2017 CSV

Item	Unit	MDL	Result	Limit
			(1)	
Mercury(Hg)	mg/Kg	10	N.D.	1000
Conclusion	/	/	Pass	/

### A.1.4 Chromium VI (CrVI) content

Test method: IEC 62321-7-2:2017

Item	Unit	MDL	Result	Limit
			(1)	
hexavalent chromium(Cr VI)	mg/Kg	10	N.D.	1000
Conclusion	/	/	Pass	/

### A.1.5 PBBs & PBDEs content

Test method: IEC 62321-6:2015

Item	Unit	MDL	Result	Limit
			(1)	
Monobromobiphenyl(MonoBB)	mg/Kg	5	N.D.	-

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Item	Unit	MDL	Result	Limit
			(1)	
Dibromobiphenyl(DiBB)	mg/Kg	5	N.D.	-
Tribromobiphenyl(TriBB)	mg/Kg	5	N.D.	-
Tetrabromobiphenyl(TetraBB)	mg/Kg	5	N.D.	-
Pentabromobiphenyl(PentaBB)	mg/Kg	5	N.D.	-
Hexabromobiphenyl(HexaBB)	mg/Kg	5	N.D.	-
Heptabromobiphenyl(HeptaBB)	mg/Kg	5	N.D.	-
Octabromobiphenyl(OctaBB)	mg/Kg	5	N.D.	-
Nonabromobiphenyl(NonaBB)	mg/Kg	5	N.D.	-
Decabromobiphenyl(DecaBB)	mg/Kg	5	N.D.	-
Monobromodiphenyl ether (MonoBDE)	mg/Kg	5	N.D.	-
Dibromodiphenyl ether(DiBDE)	mg/Kg	5	N.D.	-
Tribromodiphenyl ether(TriBDE)	mg/Kg	5	N.D.	-
Tetrabromodiphenyl ether (TetraBDE)	mg/Kg	5	N.D.	-
Pentabromodiphenyl ether (PentaBDE)	mg/Kg	5	N.D.	-
Hexabromodiphenyl ether (HexaBDE)	mg/Kg	5	N.D.	-
Heptabromodiphenyl ether (HeptaBDE)	mg/Kg	5	N.D.	-
Octabromodiphenyl ether (OctaBDE)	mg/Kg	5	N.D.	-
Nonabromodiphenyl ether (NonaBDE)	mg/Kg	5	N.D.	-
Decabromodiphenyl ether (DecaBDE)	mg/Kg	5	N.D.	-
sum of PentaBDE,DecaBDE,TetraBDE, TriBDE,HeptaBDE,OctaBDE,DiBDE, MonoBDE,HexaBDE,NonaBDE	mg/Kg	-	/	1000
sum of PentaBB,DecaBB,MonoBB,HexaBB,TetraBB,OctaBB,HeptaBB,NonaBB,DiBB,TriBB	mg/Kg	-	/	1000
<b>Conclusion</b>	/	/	<b>Pass</b>	/

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**A.2 Phthalates(DBP, BBP, DEHP, DIBP)content**

Test method: IEC 62321-8:2017

Item	Unit	MDL	Result	Limit
			(1)	
Dibutyl Phthalate(DBP)	mg/Kg	30	N.D.	1000
Benzyl Butyl Phthalate(BBP)	mg/Kg	30	N.D.	1000
Bis-(2-ethylhexyl) Phthalate (DEHP)	mg/Kg	30	N.D.	1000
Diisobutyl phthalate(DIBP)	mg/Kg	30	N.D.	1000
<b>Conclusion</b>	/	/	<b>Pass</b>	/

Note:

- N.D.= Not Detected or less than MDL
- MDL = Method Detection Limit

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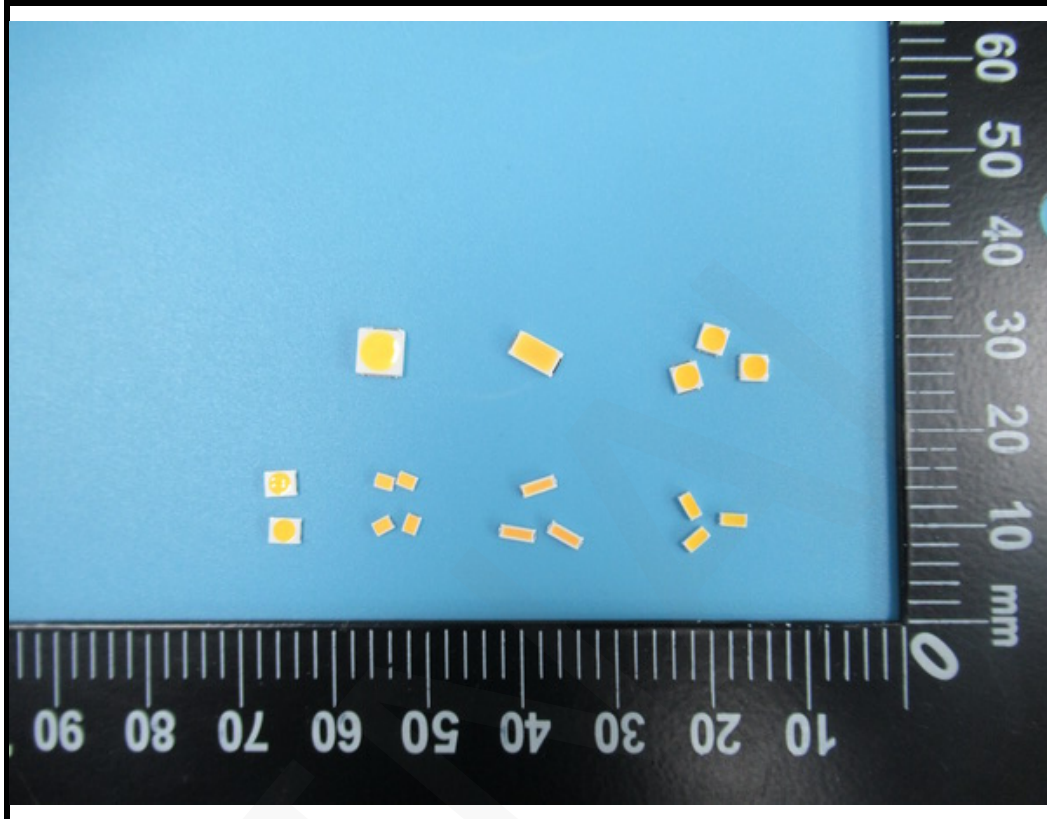
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Photograph of Sample



BACL authenticate the photo on original report only

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Statement:

- 1.This report cannot be reproduced except in full, without prior written approval of the Company.
- 2.Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.
- 3.This report is valid only with a valid digital signature. The digital signature may be available only under the Adobe software above version 7.0.
- 4.Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.
- 5.The information which provided by the applicant, such as sample description, sample name, material component, style/item No. , P.O. No. , manufacturer, age phase, the laboratory is not responsible for its authenticity and this information can affect the validity of the result in the test report.
- 6.The test samples were in good condition before testing.

\*\*\* End of Report \*\*\*