



Date : 3-Feb-2021

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Client : Terminal Lugs Co.,Ltd 110/6 Moo2 Krungnont-Jongthanom Road Mahasawat , Bangkruay Nonthaburi 11130 Thailand

4832329

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

| Sample Name Client Reference Informa Country of Origin | t: Y 1.5 -3S-4S-5S, Y 2.5 -3S-4S-5S, : Y 4 -4-5, Y 6 -4S-5S, Y 6 -6 |
|--|--|
| The following sample(s) SGS Sample No. | was/were identified by SGS as: : 5019124 : Sample is contained in a plastic bag. |
| Sample Receiving Date Testing Period | |
| Test Requested | : In accordance with the RoHS Directive 2011/65/EU (Annex II) [amended by Directive (EU) 2015/863] .Selected test (s) as requested by client. |
| Test Method | (1) IEC 62321-5 edition 1.0 : 2013 for Lead content, Analyzed by ICP-OES. (2) IEC 62321-5 edition 1.0 : 2013 for Cadmium content, Analyzed by ICP-OES. (3) IEC 62321-4 ,edition 1.1 : 2017 for Mercury Content, Analyzed by ICP-OES. (4) IEC 62321-7-1 edition 1.0 : 2015 for Hexavalent Chromium Content, Analyzed by UV/Vis Spectrometry. (5) IEC 62321-6 edition 1.0 : 2015 for PBBs/PBDEs content, Analyzed by GC/MS. (6) IEC 62321-8 edition 1.0 : 2017 for Phthalates content, Analyzed was performed by GC/MS. |
| Test Results | : Please refer to next page. |

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CONCLUSION

Based on the performed tests on submitted sample(s),the results of Cadmium (Cd),Lead (Pb),Mercury (Hg),Hexavalent chromium (Cr-VI),Polybrominated biphenyls (PBBs),Polybrominated diphenyl ethers (PBDEs) and Phthalates such as Bis(2-ethylhexyl) phthalate (DEHP),Butyl benzyl phthalate (BBP),Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP) comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

Signed for and on behalf of SGS (Thailand) Limited

Patcharee T

Patcharee Treeporncharoen Laboratory manager - Chemical

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Test Report No. 4832329 TEST RESULTS

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Test results by chemical method (Unit: mg/kg)

| Test Item (s): | Method (Refer to) | Result (1) | MDL | RoHS Limit |
|--|----------------------|------------|------|------------|
| Lead (Pb) | (1) | n.d. | 2 | 1000 |
| Cadmium (Cd) | (2) | n.d. | 2 | 100 |
| Mercury (Hg) | (3) | n.d. | 2 | 1000 |
| Hexavalent Chromium (CrVI) by boiling water extraction # (Unit : (ug/cm2)) | (4) | n.d. | 0.10 | - |

Test Part Description Result (1) metal with plating

Note :

(a) mg/kg = ppm ; 0.1wt% = 1000 ppm

(b) ug/cm2 = microgram/centremeter square

(c) n.d. = Not Detected

(d) MDL = Method Detection Limit

(e) # = a. The sample is positive for CrVI if the CrVI concentration is greater than 0.13 ug/cm2. The sample coating is considered to contain CrVI

b. The sample is negative for CrVI if CrVI is n.d. (concentration less than 0.10 ug/cm2). The coating is considered a non-CrVI based coating

c. The result between 0.10 ug/cm2 and 0.13 ug/cm2 is considered to be inconclusive - unavoidable coating variations may influence the determination

(f) "-" = Not regulated

(g) For corrosion protection coatings on metals: Information on storage conditions and production date of the tested sample is unavailable and thus results of Cr(VI) represent status of the sample at the time of testing represent status of the sample at the time of testing.

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Test results by chemical method (Unit: mg/kg)

| Test Item (s): | Method (Refer to) | Result (1) | MDL | RoHS Limit |
|--------------------|----------------------|------------|-----|------------|
| Sum of PBBs | (5)* | n.d. | - | 1000 |
| Monobromobiphenyl | | n.d. | 5 | - |
| Dibromobiphenyl | | n.d. | 5 | - |
| Tribromobiphenyl | | n.d. | 5 | - |
| Tetrabromobiphenyl | | n.d. | 5 | - |
| Pentabromobiphenyl | | n.d. | 5 | - |
| Hexabromobiphenyl | | n.d. | 5 | - |
| Heptabromobiphenyl | | n.d. | 5 | - |
| Octabromobiphenyl | | n.d. | 5 | - |
| Nonabromobiphenyl | | n.d. | 5 | - |
| Decabromobiphenyl | | n.d. | 5 | - |

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Test results by chemical method (Unit: mg/kg)

| Test Item (s): | Method (Refer to) | Result (1) | MDL | RoHS Limit |
|--------------------------|----------------------|------------|-----|------------|
| Sum of PBDEs | (5)* | n.d. | - | 1000 |
| Monobromodiphenyl ether | | n.d. | 5 | - |
| Dibromodiphenyl ether | | n.d. | 5 | - |
| Tribromodiphenyl ether | | n.d. | 5 | - |
| Tetrabromodiphenyl ether | | n.d. | 5 | - |
| Pentabromodiphenyl ether | | n.d. | 5 | - |
| Hexabromodiphenyl ether | | n.d. | 5 | - |
| Heptabromodiphenyl ether | | n.d. | 5 | - |
| Octabromodiphenyl ether | | n.d. | 5 | - |
| Nonabromodiphenyl ether | | n.d. | 5 | - |
| Decabromodiphenyl ether | | n.d. | 5 | - |

Test Part Description Result (1) metal with plating

Note : (a) mg/kg = ppm ; 0.1 wt% = 1000 ppm

(b) n.d. = Not Detected

(c) MDL = Method Detection Limit

(d) "-" = Not regulated

(e) Test done on client submitted sample

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TEST RESULTS

Phthalates Content for RoHS Directive 2011/65/EU Annex II [amended by Directive (EU) 2015/863], Analysis was performed by GC/MS.

| Analysis | Method (Refer to 6) | Result (1) (mg/kg) | MDL | RoHS Limit (mg/kg) |
|--|-------------------------------------|--------------------|-----|--------------------|
| DEHP (Di-2-ethylhexyl phthalate)* (CAS No.: 117-81-7) | IEC 62321-8 , Edition 1.0 , 2017 | n.d. | 50 | 1000 |
| BBP (Benzyl butyl phthalate)* (CAS No.: 85-68-7) | IEC 62321-8 , Edition 1.0 , 2017 | n.d. | 50 | 1000 |
| DBP (Di-butyl phthalate)* (CAS No.: 84-74-2) | IEC 62321-8 , Edition 1.0 , 2017 | n.d. | 50 | 1000 |
| DIBP (Di-isobutyl phthalate)* (CAS No.: 84-69-5) | IEC 62321-8 , Edition 1.0 , 2017 | n.d. | 50 | 1000 |

Note :

(a) mg/kg = ppm ; 0.1 wt% = 1000 ppm

(b) n.d. = Not Detected

(c) MDL = Method Detection Limit

(d) Result (1) metal with plating

(e) Test done on client submitted sample

Remarks:

(1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.

(2) IEC 62321 series is equivalent to EN 62321 series.

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https://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP_ORG_ID,FSP_LANG_ID:1258637,25

(3) The restriction of DEHP, BBP, DBP and DIBP shall apply to medical devices, including in vitro medical devices, and monitoring and control instruments, including industrial monitoring and control instruments, from 22 July 2021.

Test(s) marked * on this report are not included in the Accreditation Scope.

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Test Report No. 4832329 Date : 3-Feb-2021 Flow chart of Pb,Cd,Hg Testing (Test method : IEC 62321) +-----+ | Mechanical Sample Preparation | -----+ Ι -----+ | Acid digestion with Т | Microwave/Hotplate Т ------Т Filtration Residue No ----- Yes I Total digestion I -----+ -----+ Т Analysis was Т performed by ICP-OES T T -----+ T -----+ Data Т Т ------

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Flow chart of Hexavalent Chromium Testing

(Test method : IEC 62321)

| ++ |
|-----------------------------|
| Metallic material |
| |
| ++ |
| I |
| ++ |
| Boiling water Extraction |
| ++ |
| · · · |
| I |
| ++ |
| Adding Orthophosphoric acid |
| Solution and |
| 1,5-diphenylcarbazide for |
| color development |
| |
| ++ |
| |
| ++ |
| Analysis was |
| performed by UV-Vis |
| periormed by ov-vis |
| ++ |
| |
| ++ |
| Data |
| + |
| |

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Flow chart of PBBs, PBDEs Testing (Test method : IEC 62321) +-----+ | Sample pretreatment/separation | +-----+ T +----+ | Sample solvent extraction 1 by Toluene T -----+ Ι +-----Concentrate/Dilution of Т Т extracted solution Т Т _____ T +-----Filtration I -----+ L -----+ +-I Analysis was Т performed by GC/MS T -----+ -----+ + Data T T -----+

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Flow chart of Phthalates Testing (Test method : IEC 62321) +-----+ | Sample pretreatment/separation | +-----+ T +-----+ | Sample dissolved/extraction Т | by Hexane _____ Τ Dilution T T extracted solution Т T -------+ Analysis was Т performed by GC/MS T -----+ T ------+ + T Data -----+ +

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SAMPLE/ATTACHMENT PICTURE



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