

Report No. 报告号:

326038412b 001

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Client 客户:

EASCO ELECTRICAL (JIANG SU) CO,LTD.

Contact Information 联系方式:

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江苏省启东市惠萍镇朝阳路88号

Identification/

Model No(s) 样品描述/规格:

Halogen-free Wiring Duct 无卤线槽
UHF-L series, UHF-S series, SDRHF series

Sample obtaining method 样品获取方式:

Sending by customer 客户寄样

Condition at delivery:
样品接收状态

Test item complete and undamaged. 样品完好无损

Sample Receiving date 收件日期:

2024-07-10

Testing Period 测试日期:

2024-07-10 to 2024-07-18

Place of testing: 测试地点

Chemical Laboratory Shanghai 上海化学实验室

Test Specification 测试要求:

Test result 测试结果:

Customer's requirement 客户要求:

1. According to RoHS (recast): Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment, 2011/65/EU Annex II and its amendment 根据RoHS (重铸): 电子电气设备中特定有害物质的使用限制, 2011/65/EU附录2及其修正案

PASS 符合

For and on behalf of
TÜV Rheinland (Shanghai) Co., Ltd.2024-07-26 Mia Shen / Project Engineer
Date 日期 Name/Position 姓名/职位

Sample information is provided by customer. Test result is drawn according to the kind and extent of tests performed. This test report relates to the above mentioned test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. For a test report to be used within Mainland of China which is not with CMA logo, then the reported results are used for research, teaching or internal quality control purposes and are for internal use only. This test report does not entitle to carry any safety mark on this or similar products. "Decision Rule" document announced in our website (<https://www.tuv.com/landingpage/en/qm-gcn/>) describes the statement of conformity and its rule of enforcement for test results are applicable throughout this test report.

样品信息由客户提供。测试结果根据所做测试的种类和范围而得出。本测试报告仅对来样负责。未经本测试中心许可, 测试报告不得部分复制。在中国境内使用的检测检验报告, 如未加盖CMA章, 则报告结果作为科研、教学或内部质量控制之用, 仅供内部使用。不能根据此报告在上述产品或类似产品上使用任何安全标志。本测试报告中, 描述符合性声明所应用的判定规则发布在我司官网 <https://www.tuv.com/landingpage/en/qm-gcn/>。

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Material List 材料清单:

Item 项目: Halogen-free Wiring Duct 无卤线槽
UHF-L series, UHF-S series, SDRHF series

Material No. 材料号	Material 材质	Color 颜色	Location 位置
A001	PC/ABS	gray	refer to photo

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1. According to RoHS (recast): Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment, 2011/65/EU Annex II and its amendment根据RoHS（重铸）：电子电气设备中特定有害物质的使用限制，2011/65/EU附录2及其修正案

Test Method Total Cadmium, Lead, Mercury, Chromium
测试方法: - Ref. to IEC 62321-4:2013+AMD1:2017 and IEC 62321-5:2013

Chromium (VI)
 - For Metal material - Ref. to IEC 62321-7-1:2015
 - For Polymer, Electronic material or others materials – Ref. to IEC 62321-7-2:2017

PBBs, PBDEs – Ref. to IEC 62321-6:2015

Test Result: 检测结果

	Cd 镉	Cr(VI)六价铬	Pb 铅	Hg 汞	PBBs (*) 多溴联苯	PBDEs (*) 多溴二苯醚
Limit 限值(%)	0.01	0.1	0.1	0.1	0.1	0.1

Material No. 材料号	Results [%] 测试结果 (%)					
	Cd 镉	Cr^ 铬^	Pb 铅	Hg 汞	PBBs 多溴联苯	PBDEs (*) 多溴二苯醚
	RL报告检出限 (%)					
	0.001	0.001	0.001	0.001	0.0005	0.0005
A001	< RL	< RL	< RL	< RL	< RL	< RL

Material No. 材料编号	Hexavalent Chromium Content (%) (*2) 六价铬含量 RL: 0.01%
A001	<RL

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Abbreviation/ 简称:	Pb	= Lead
	Cd	= Cadmium
	Hg	= Mercury
	Cr	= Chromium
	Cr (VI)	= Chromium (VI)
	PBBs	= Total Polybrominated Biphenyls
	PBDEs	= Total Polybrominated Diphenyl Ethers
	n.d.	= Not Detected (< Reporting Limit)
	RL	= Reporting Limit
	N.A.	= Not Applicable
	^	= The total Chromium have been determined
	%	= percentage
	Pb	表示铅
	Cd	表示镉
	Hg	表示汞
	Cr	表示铬
	Cr (VI)	表示六价铬
	PBBs	表示总多溴联苯
	PBDEs	表示总多溴联苯醚
	n.d.	表示未检出
	RL	表示报告检出限
	N.A.	表示不适用
	^	表示总铬
	%	表示百分率

Remark 备注:

(*1) The total chromium content in Metal sample was found to be exceeded the maximum permissible limit (0.1%). Thus, the Chromium (VI) content in surface layer have been confirmed with reference to IEC 62321-7-1:2015 Annex.

金属样品内总铬含量超过最大允许限值（0.1%），实验室依照IEC 62321-7-1:2015附录进行表面涂层的六价铬含量测试。

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	Chromium (VI) concentration 六价铬含量	Qualitative result 定性结果
Negative 阴性	<0.1 µg/cm ²	The sample is negative (-ve) for Cr(VI). The Cr(VI) concentration is below the limit of quantification. The coating is considered a non-Cr(VI) based coating. 样品六价铬测定结果为阴性 六价铬浓度低于定量限, 涂层视为非六价铬涂层。
Inconclusive 无法判定	≥0.1 µg/cm ² and ≤0.13 µg/cm ²	The result is considered to be inconclusive. Unavoidable coating variations may influence the determination. Recommendation: if additional samples are available, perform a total of 3 trials to increase sampling surface area. Use the averaged result of the 3 trials for the final determination. 六价铬测定结果为无法判定。 涂层的差异不可避免的可能影响测定。 推荐: 如果有额外的样品, 测试加大样品表面积的三平行样。以三平行测试的平均值作为最终测定结果。
Positive 阳性	>0.13 µg/cm ²	The sample is positive (+ve) for Cr(VI). Concentration is above the limit of quantification and the statistical margin of error. The sample coating is considered to contain Cr(VI). 六价铬测试结果为阳性 六价铬浓度高于定量限及统计误差幅度。样品涂层视为含有六价铬。

* The reporting limit for each individual PBBs and individual PBDEs are :
 每种多溴联苯和多溴二苯醚的报告检出限如下:

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		Reporting Limit (%) 报告检出限(%)
PBBs 多溴联苯	Bromobiphenyl 一溴联苯	0.0005
	Dibromobiphenyl 二溴联苯	0.0005
	Tribromobiphenyl 三溴联苯	0.0005
	Tetrabromobiphenyl 四溴联苯	0.0005
	Pentabromobiphenyl 五溴联苯	0.0005
	Hexabromobiphenyl 六溴联苯	0.0005
	Heptabromobiphenyl 七溴联苯	0.0005
	Octabromobiphenyl 八溴联苯	0.0005
	Nonabromobiphenyl 九溴联苯	0.0005
	Decabromobiphenyl 十溴联苯	0.0005
PBDEs 多溴二苯醚	Bromodiphenylether 一溴二苯醚	0.0005
	Dibromodiphenyl ether 二溴二苯醚	0.0005
	Tribromodiphenyl ether 三溴二苯醚	0.0005
	Tetrabromodiphenyl ether 四溴二苯醚	0.0005
	Pentabromodiphenyl ether 五溴二苯醚	0.0005
	Hexabromodiphenyl ether 六溴二苯醚	0.0005
	Heptabromodiphenyl ether 七溴二苯醚	0.0005
	Octabromodiphenyl ether 八溴二苯醚	0.0005
	Nonabromodiphenyl ether 九溴二苯醚	0.0005
	Decabromodiphenyl ether 十溴二苯醚	0.0005

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2. Benzylbutyl phthalate (BBP), Dibutyl phthalate (DBP), Bis(2-ethylhexyl) phthalate (DEHP), Diisobutyl phthalate (DIBP)

邻苯二甲酸苯基丁酯(BBP)、邻苯二甲酸二丁酯(DBP)、邻苯二甲酸二(2-乙基己基)酯(DEHP)、邻苯二甲酸二异丁酯(DIBP)

邻苯二甲酸苯基丁酯(BBP)、邻苯二甲酸二丁酯(DBP)、邻苯二甲酸二(2-乙基己基)酯(DEHP)、邻苯二甲酸二异丁酯(DIBP)含量

Test method ref. to IEC 62321-8:2017

测试方法:
Test result 测试结果:

	BBP	DBP	DEHP	DIBP
Maximum permissible Limit 最大允许限值 (%)	0.1	0.1	0.1	0.1

Test No. 测试编号	Material No. 材料编号	(%)			
		BBP	DBP	DEHP	DIBP
		RL报告检出限 (%)			
		0.005	0.005	0.005	0.005
T001	A001	< RL	< RL	< RL	< RL

Abbreviation简称: BBP = Benzylbutyl phthalate
 DBP = Dibutyl phthalate
 DEHP = Bis(2-ethylhexyl) phthalate
 DIBP = Diisobutyl phthalate
 < = Less than
 RL = Reporting Limit
 % = percentage
 BBP 表示邻苯二甲酸苯基丁酯
 DBP 表示邻苯二甲酸二丁酯
 DEHP 表示邻苯二甲酸二(2-乙基己基)酯
 DIBP 表示邻苯二甲酸二异丁酯
 < 表示小于
 RL 表示报告检出限
 % 表示百分率

Remark备注:

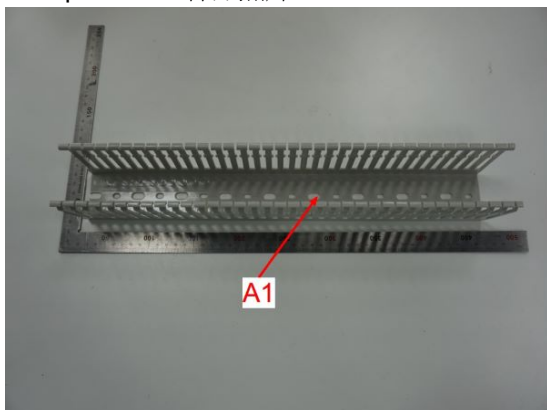
* The maximum permissible limit is required from the amendment (EU) 2015/863 of RoHS Directive 2011/65/EU.

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Sample Photo 样品照片



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