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申请公司: Shanghai Easco Electrical Co.,Ltd.

申请地址: N-7 No.105 Lane 1159 Kanqiao East Road Pudong New District Shanghai
1159 105 N-7

测试样品: Wiring Duct Products, Trade: EASCO, Material: PC+ABS, Color: RAL7035
配线槽产品, 商标: EASCO 亿思柯, 材质: PC+ABS, 颜色: RAL7035

测试标准: DIN 5510-2:2009 & DIN 54837: 2007

测试实验室: TUV(CNAS 资质实验室)

报告日期: 2023 年 2 月 9 日

测试数据:

测试项目	报告编号	测试结果	评定标准
燃烧等级测试	TC.18.02.000552	S3(破坏长度 23cm,后燃烧时间为 0s)	S3(破坏长度≤25cm 且 后燃烧时间≤100s)
熔滴等级		ST1(有熔滴)	ST1(燃烧有滴落)
烟的发展等级		SR2 (光衰减:46.9%*min)	SR2 光衰减 ≤50(%*min)

结论: 此产品达到 **DIN 5510-2:2009** 等级为: 可燃性分类等级: **S3**
熔滴等级分类: **ST1**
烟的发展等级: **SR2**

证书查询:

证书可以在此网站查询: www.fire-test.com

方法如下:

- 1.打开 www.fire-test.com 网站
- 2.选择“证书查询”
- 3.输入报告或证书编号及申请者名称(Shanghai Easco Electrical Co.,Ltd.)
- 4.确认后即可查询出相关信息

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1. 您可以扫一扫下方的二维码，或
2. 您也可以搜索“**firetest**”微信号。



DIN5510-2 燃烧等级测试、熔滴测试、烟的发展测试根据 DIN 54837 标准进行测试

DIN 54837 测试方法

1.样品预处理

样品在测试之前，至少在 $23\pm 2^{\circ}\text{C}$ 的温度和 $50\pm 5\%$ 的湿度下放置 48 小时，直至样品质量稳定。

2.样品燃烧测试

标准尺寸的样品垂直放置燃烧炉内，整个测试时间为 5 分钟，施加火源 3 分钟，炉内丙烷燃烧气体的流量为 $1005\pm 20\text{mg}/\text{min}$ 。观察样品的破坏长度、后燃时间、烟的发展情况、是否有熔滴现象产生。

3.测试数据的评估

DIN 5510-2 中 S2-S5 燃烧等级测试

燃烧等级	S2	S3	S4	S5
破坏范围	$\leq 30\text{cm}$	$\leq 25\text{cm}$	$\leq 20\text{cm}$	0cm
后燃烧时间	无要求	$\leq 100\text{s}$	$\leq 10\text{s}$	0s

烟的发展(未达到 SR1, SR1-SR2)

冒烟等级	光衰减积分
未达到 SR1	$> 100(\%*\text{min})$
SR1	$\leq 100(\%*\text{min})$
SR2	$\leq 50(\%*\text{min})$

熔滴测试 (ST1-ST2)

熔滴等级	观察
ST1	燃烧有熔滴滴落现象
ST2	没有滴落现象



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CNAS L6069




Report No. TC.18.02.000552

Date of Issue 02/09/2023

Applicant: Shanghai Easco Electrical Co.,Ltd.

Applicant address: N-7 No.105 Lane 1159 Kanqiao East Road Pudong New District Shanghai

Description of the test subject:

Sample	Description	Photo
001	Name: Wiring Duct Products Trade: EASCO Material: PC+ABS Color: RAL7035	

Receipt Date of Sample: 02/05/2023

Date of Testing: From 02/05/2023 to 02/09/2023

Sample submitted: The sample(s) was (were) submitted by applicant and identified.

Conclusion:

Test Items			Classification		
No.	Items	Standard			
1	Testing of materials, small components and component sections for rail vehicles – Determination of burning behaviour using a gas burner.	DIN 5510-2:2009 DIN 54837:2007	S3	SR2	ST1

Note: (1) General Terms & Conditions as mentioned overleaf,(2)The results relate only to the items tested,(3)The test report shall not be reproduced except in full without the written approval of the company. (4) Samples are tested as received.



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Test Results

DIN 5510-2:2009 Preventive Fire Protection in Railway Vehicles - Part 2: Fire Behaviour and Fire Side Effects of Materials and Parts; Classification, Requirements and Test Methods

1. DIN 54837:2007 Testing of materials, small components and component sections for rail vehicles – Determination of burning behaviour using a gas burner

1.1 Sample details

Specimen size	50 mm x 500 mm , 5PCS
Thickness	About 8 mm
Conditioning	T :23± 2 H :50±5% >48 h

1.2 Test results

		Specimen No.					Average
		1	2	3	4	5	
Flaming at	(s)	14	16	14	15	15	15
Afterflame	(s)	0	0	0	0	0	0
Glowing	Occur (s)	-	-	-	-	-	-
	Afterglow (s)	-	-	-	-	-	-
Flame Height	Maximum (cm)	31	35	32	33	35	33
	Reached at (s)	55	51	56	51	54	53
Drop away of parts	Drop Away (Yes/No)	Yes	Yes	Yes	Yes	Yes	-
	Burning time (s)	15	14	16	14	15	15
Smoke Density	Maximum (%)	44.99	45.2	45.2	41.7	40.9	43.6
	At Time (s)	85	87	89	91	88	88
	Integral (%xmin)	43.1	46.2	47.5	48.9	48.7	46.9
Charred Length	(cm)	22	24	23	23	24	23
Extinguished	(s)	180	180	180	180	180	180
Burn through	(Yes/No)	Yes	Yes	Yes	Yes	Yes	-
Melting	(Yes/No)	Yes	Yes	Yes	Yes	Yes	-

Test method	Parameter	Results
DIN 54837	Damaged Length (cm)	23

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	Afterflame (s)	0
	Smoke (%xmin)	46.9
	Drops	Yes/15s

Classification	S3	SR2	ST1
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Requirements according to DIN 5510-2:2009

Burning Class		Smoke class		Dripping Class	
Class	Requirements	Class	Requirements	Class	Requirements
S1	Test according to DIN 53438-2/3 required	--	--	--	--
S2	Damaged length≤30 cm	Not reached SR1	Int. > 100 %xmin	ST1	Burning / falling drops, afterflame of drops>20 s
S3	Damaged length≤25 cm, afterflame≤100 s, (No individual value ≥ 120s)	SR1	Int. ≤ 100 %xmin	ST2	No dripping / No falling drops
S4	Damaged length≤20cm, afterflame≤10s,	SR2	Int. ≤ 50 %xmin		
S5	Damaged length=0cm Afterflame=0s				

Statement The test results relate to the behaviour of the test specimens of a product under the particular conditions of the test; they are not intended to be the sole criterion for assessing the potential smoke and toxicity hazard of the product in use.

Changzhou Jinbiao Railway Transportation Technical Service Co., Ltd.

Drafted by:

Lynn liu

Approved by:

Shen hui

-End of Report-

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