

Customer

Karl Bubenhofer AG
Hirschenstraße 26
09200 Gossau
Switzerland



Environmental Lab



Materials Lab



Fire Lab



New Technologies

RST Rail System Testing GmbH
Walter-Kleinow-Ring 7
16761 Hennigsdorf

Fon +49 (0)3302 49982 0
Fax +49 (0)3302 49982 15

www.rst-labs.de
info@rst-labs.de

Summary report no. P60-16-8091en**Fire testing**

Order number: 60-16-0415
Date: 30.08.2016
Editor: Mr. Harder
Documentation: Hs

This report consists of
2 page(s) and 0 enclosure(s).

Fon: 03302 49982 60

Delivery date specimen: 15.07.2015

Test date: 25.07.2016 to 26.08.2016

Test specimen: Polyflex® powder coating
Order number: e-mail from
Order date: 13.07.2016

Test specification: Test methods of requirement R1 according to
DIN EN 45545-2 (08/2013) „Railway applications – Fire protection on
railway vehicles – Part 2: Requirements for fire behavior of materials
and components“

Objective: Evaluation according to DIN EN 45545-2 (08/2013)
Requirement R1 (see table 5 – Set of material requirements) in due
consideration paragraph 4.2 point I)

Test results: **The material reached a Hazard Level HL3 (HL3) for requirements
R1.**

Remark: The classification is valid only in conjunction with the test reports listed
on page 2. Please refer to the test reports for details.



Stefan Harder
Head of Fire Lab

The results refer only to the specimens mentioned above.
This Test Report must always be copied entirely. Any copying of extracts and publication require the prior consent of the Laboratory.

1 Details about the specimens

Material or combination of materials:

1mm aluminum sheet + max. 150µm powder coating

Manufacturer:

Karl Bubenhofer AG
Hirschenstraße 26
09200 Gossau
Switzerland

Dimensions of sample

800mm x 155mm x 1,2mm
100mm x 100mm x 1,0mm
75mm x 75mm x 1,2mm

Side of specimen to be tested by flame:

coated side

2 Summary of results

The material was tested for use in railway vehicles, requirement R1 (Table 5 DIN EN 45545-2).

Test report no.	Reference method	Standard	Parameter	Unit	Result	HL
P60-16-0559en	T02	ISO 5658-2	CFE	kW m ⁻²	34,5	3
P60-16-5284en	T03.01	ISO 5660-1	MARHE	kWm ⁻²	26,7	3
P60-16-4260en	T10.01	EN ISO 5659-2	Ds(4)	dimensionless	43	3
	T10.02	EN ISO 5659-2	VOF4	min	55	3
P60-16-3386en	T11.01	EN ISO 5659-2	CIT	dimensionless	0,05	3

The **Hazard Level HL** depends on the operation category and design category according to DIN EN 45545-2 Table 1.

Operation category	Design category			
	N: Standard vehicles	A: Automatic vehicles having no emergency trained staff on board	D: Double decked vehi- cle	S: Sleeping and cou- chette cars double decked or single deck
1	HL1	HL1	HL1	HL2
2	HL2	HL2	HL2	HL2
3	HL2	HL2	HL2	HL3
4	HL3	HL3	HL3	HL3

Signum
Prüfer:

