

TESTING THE WORLD FOR TOMORROW

Customer

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Environmental Lab



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RST Rail System Testing GmbH

New Technologies

Summary report no. P60-18-8112en

Fire testing

Order number:

60-18-0472 15.10.2018

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Delivery date specimen:

24.09.2018

Test date:

From 28.09.2018 to 12.10.2018

Test specimen:

OneWayVision Window Film panoRama / panoRama Innova

Test specification:

Test methods of requirement set R7 according to

DIN EN 45545-2 (02/2016) "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 (02/2016)

Requirement set R7 (see table 5 – Set of material requirements)

Test results:

With the obtained test results, the material reached for the

requirement R7 the Hazard Level 3 (HL3).

Remark:

The classification is valid only in conjunction with the test reports listed

on page 2. Please refer to the test reports for details.

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.





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1 Details about the specimens

Material or combination of materials:

OneWayVision Window Film panoRama / panoRama Innova glued on approx. 4mm glass

Manufacturer:

Continental Grafix AG Bahnhof-Park 3 6340 Baar Switzerland

Dimensions of sample:

Ref. test methods:

T02

795mm x 150mm x 3,9mm

T03.01

100mm x 100mm x 4,0mm

T10.04, T11.01

75mm x 75mm x 4,0mm

Side of specimen to be tested by flame:

foiled side

2 Summary of results

The material was tested for use in railway vehicles, requirement set R7 (Table 5 DIN EN 45545 2).

Test report no.	Reference method	Standard	Parame ter	Unit	Result	HL
P60-18-0623	T02	ISO 5658-2	CFE	kW/m²	44,6	3
P60-18-5352	T03.01	ISO 5660-1	MARHE	kW/m²	9,2	3
P60-18-4378	T10.04	ISO 5659-2	Ds max	dimensionless	85	3
P60-18-3480	T11.01	ISO 5659-2	CIT	dimensionless	0,36	3
Product classification	-	EN 45545-2	-	-	-	HL3

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

	Design category					
Operation category	N: Standard vehicles	A: Automatic vehicles having no emergency trained staff on board	D: Double decked vehicle	S: Sleeping and couchette 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		

