

Test report No. P60-09-0454

Pre Fire testing

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signs: SG/sm

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Manufacturer/Customer: ISOFLEX AB, Soldatvägen 1, SE-783 50 Gustafs, Sweden

Receiving date: 21.09.2009

Test date: 24.09.2009

Test specimen: T12 Moniflex, thickness: 60 mm

Material or combination of materials: reference-number: 936

Side of specimen to be tested by flame: side identical

Test specification: Examination according to DIN 54837 (12/2007)
"Testing of material, small parts and components for rail vehicles
- Determination of burning behaviour using a gas burner"

Objective of test: Evaluation according to DIN 5510 part 2 (05/2009)

Test results: Inflammability class: S 3
Smoke development class: SR 2
Class of the capacity of forming drops: ST 2

Notes: This test has orientating character, only because of the required classification S 4 could not achieved.

This report consists of 4 pages.



Gert Schmidt
Head of firelab

The results refer only to the specimens mentioned above.
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This document is not
a complete test report
in sense of DIN 5510-2

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Results

Air temperature [°C]/ rel. air humidity [%]: 22 / 52
 Dimensions of sample length [mm]: 500
 width [mm]: 190
 thickness [mm]*): ≈60
 weight [g]*): 75

*) Average value of all samples, minimum and maximum of thickness measurement

Conditioned in laboratory: Normal climate DIN 50014 - 23/50-2

Duration of climatisation : > 48 h

Test chamber: Big combustion box in accordance with DIN 50050 part 2

		1	2	3	4	5	average
Ignition of sample	Time (s)	< 1	< 1	< 1	-	-	
Afterburning of sample *)	Duration (s)	-	-	-	-	-	-
Afterglow of sample *)	Duration (s)	-	-	-	-	-	
Height of flames	Maximum (cm)	20	20	20	-	-	
	Reached after s	10	10	10	-	-	
Falling - off of parts of sample *)	Falling yes / no	yes	yes	yes	-	-	
	Burning duration of burning (s)	-	-	-	-	-	-
Smoke density	Maximum (%)	23,5	19,8	26,4	-	-	23,2
	reached after (s)	12	13	14	-	-	13
	Integrale (% x min)	4,0	4,0	5,8	-	-	5
Destroyed area	Length (cm)	23	26	24	-	-	24
Fire on sample extinguished *)	Time (s)	-	-	-	-	-	
Burning through of the Sample	yes / no	yes	yes	yes	-	-	

*) delete if not applicable "-"

Notes: none

Signum
 test engineer: *Se.*

Short description of the test method according to DIN 54837:

The surface (5 cm of the lower edge) of a vertically arranged test sample will be exposed to the flame of a gas burner during 3 minutes. After removing the flame, the test sample is observed for added 2 minutes. The duration of the after burning, the smoke density and the dropping behaviour will be evaluated. On following the size is measured of the area destroyed by the fire of the test sample.

Requirements to the average values for the classification according to DIN 5510, part 2:

Inflammability class	Length of the destroyed area [cm]	Duration of after burning [s]
S 2	≤ 30	Further burning until the test end is admissible, afterwards it will be extinguished
S 3	≤ 25	≤ 100
S 4	≤ 20	≤ 10
S 5	0	0

- Smoke-development-classes (SR 1 and SR 2)

	Integral of the luminous attenuation [%·min]
SR 1	< 100
SR 2	< 50

- **Class** of the capacity of forming drops (ST 1 and ST 2)

Class of the capacity of forming drops	Observations
ST 1	drops or apostatizes burning
ST 2	drops or apostatizes not or not afire (Dripping of with burning duration ≤ 20s admissible)

Signum
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