



DAP-PL-1297.00

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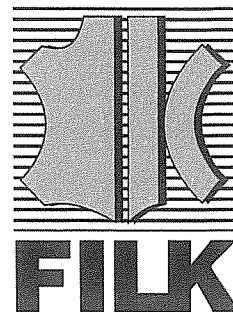
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für physikalische, mechanisch-technologische
und chemische Prüfungen von

- Leder
- Kunstleder
- Kunststoffbahnen
- Textilien

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Forschungsinstitut für Leder
und Kunststoffbahnen gGmbH

Test report

051568-1

24.08.2005

Orderer:

**Schomisch GmbH
Mr. Schomisch
Heinrich-Nicolaus-Strasse 31
87480 Weitnau/Seltmans**

Order:

Cigarette test and the match test

Date of order:

16.08.2005

Test samples / amount:

Leather ecopell castagno 737,

Sampling:

by orderer

Test methods:

DIN EN 1021 Part 1 and 2

The results are valid only for samples tested in the FILK Test Laboratory.

Accredited test methods are underlined. Interpretations in the test report are not included in accreditation. Tests carry out by co-operation partners are signed with c.

The partial publication of the test report is only allowed with a permission of the FILK gGmbH.

Claims of damages are limited by the price of tests carried out. The general terms of business are valid. They are available by fax or under www.filkfreiberg.de.

Test results:**Smouldering Cigarette Test
(DIN EN ISO 1021-Part 1)****Result:****no ignition****Cigarette**

Criteria of smoulder	1	2
3.1 a) dangerous escalating burning	no	no
3.1 b) test unit burnt out	no	no
3.1 c) smould to the edges	no	no
3.1 c) smould completely through the material	no	no
3.1 d) smould more than 1 hour	no	no
3.1 e) more than 100 mm way from origin of burning	no	no

Criteria of flaming

3.2 a) dangerous escalating burning	no	no
3.2 b) test unit burnt out	no	no
3.2 c) burn to the edges	no	no
3.2 d) burn completely through the material	no	no

**Butane Flame Test
(DIN EN 1021-Part 2)****Result:****no ignition****Flame**

Criteria of smoulder	1	2
3.1 a) dangerous escalating burning	no	no
3.1 b) test unit burnt out	no	no
3.1 c) smould to the edges	no	no
3.1 c) smould completely through the material	no	no
3.1 d) smould more than 1 hour	no	no
3.1 e) more than 100 mm away from origin of burning	no	no

Criteria of flaming

3.2 a) dangerous escalating burning	no	no
3.2 b) test unit burnt out	no	no
3.2 c) burn to the edges	no	no
3.2 d) burn completely through the material	no	no

FILK gGmbH
Test lab



Dr. Schulz

17. November 2009

Test report	09/1227e
Test standard	Directive 95/28/EC of the European Parliament and of the Council of 24 October 1995 relating to the burning behaviour of materials used in the interior construction of certain categories of motor vehicle Annex IV: Test to determine the horizontal burning rate of materials
Classification standard	Directive 95/28/EC of the European Parliament and of the Council of 24 October 1995 relating to the burning behaviour of materials used in the interior construction of certain categories of motor vehicle Annex IV: Test to determine the horizontal burning rate of materials
Client	ecopell GmbH Mr. Schomisch Heinrich-Nicolaus-Straße 31 87480 Weitnau-Seltmans / Bayern - Germany
Material	Ecopell 100 Tanned leather, black
Nominal thickness	1,4 – 1,6 [mm]

Test result

During the tests on 17. November 2009 the were fulfilled.

Annex IV: Test to determine the horizontal burning rate of materials	0 mm/min
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Michael Halfmann
(Head of Fire Testing)




Frank Volkenborn
(Vice Head of Fire Testing)



The Fire Technology laboratory of Currenta is accredited according to EN ISO/IEC 17025 generally for fire testing. The Fire Technology is notified by Federal Railway Authorities "Eisenbahnbundesamt (EBA)", "Eisenbahn-Cert (EBC) for European Railway Systems and for French Railway systems from L'agence de certification ferroviaire (CERTIFER).

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 fire hazard of the product in use.

When evidence shall be provided for materials, the test reports may be not older than 3 years.

This test report may not be reproduced except in full, without our written approval.

Client's material description¹:

Trade name	ecopell
Product description	Pflanzlich gegerbtes Leder, naturbelassen
Manufacturer	ecopell GmbH
Data sheet no.	--
Safety data sheet no.	--
Thickness	[mm] 1,4 – 1,6
Area related mass	[kg/m ²] 1 kg = 1 qm
Density	[kg/m ³] 1000 kg = 1 cbm
Composition	[%] Haut von der Kuh
Colour	schwarz
Appearance	natürlich
Flame-retardant treatment	No
Homogenous product	Yes
Field of application, maybe withdrawing	Sitze in Reisebussen
Standard handling	auf Polster-Schaummaterial
Standard backing	--
Surface to be tested?	Nappaseite

Measurements:

File-No.	L91088
Delivery date	2009-10-06
Date of test	2009-11-17
Conditioning	>48h; 23/50-2
Dimensions	[mm] 350 * 100
Thickness	[mm] 1.8 – 2.0
Area related mass	[kg/m ²] 1.05
Wired net used	[Yes/No] No
Colour	Schwarz
Appearance of surface	matt glänzende Oberseite, typisch angeraute Unterseite
Tested surface	Nappaseite
Operator	Karin Wrona
Test equipment no.	L-B411-P0015

¹ Remark 1: The customer hasn't provide this information

Remark 2: The customer is unable to provide this information

Test results: Annex IV: Test to determine the horizontal burning rate of materials

Test	reach 1 st mark	burning time (from 1 st mark)	burned length (from 1 st mark)	burning rate B
		t [s]	s [mm]	[mm/min]
1	No	0	0	0
2	No	0	0	0
3	No	0	0	0
4	No	0	0	0
5	No	0	0	0

The burn rate is calculated according to formula²:

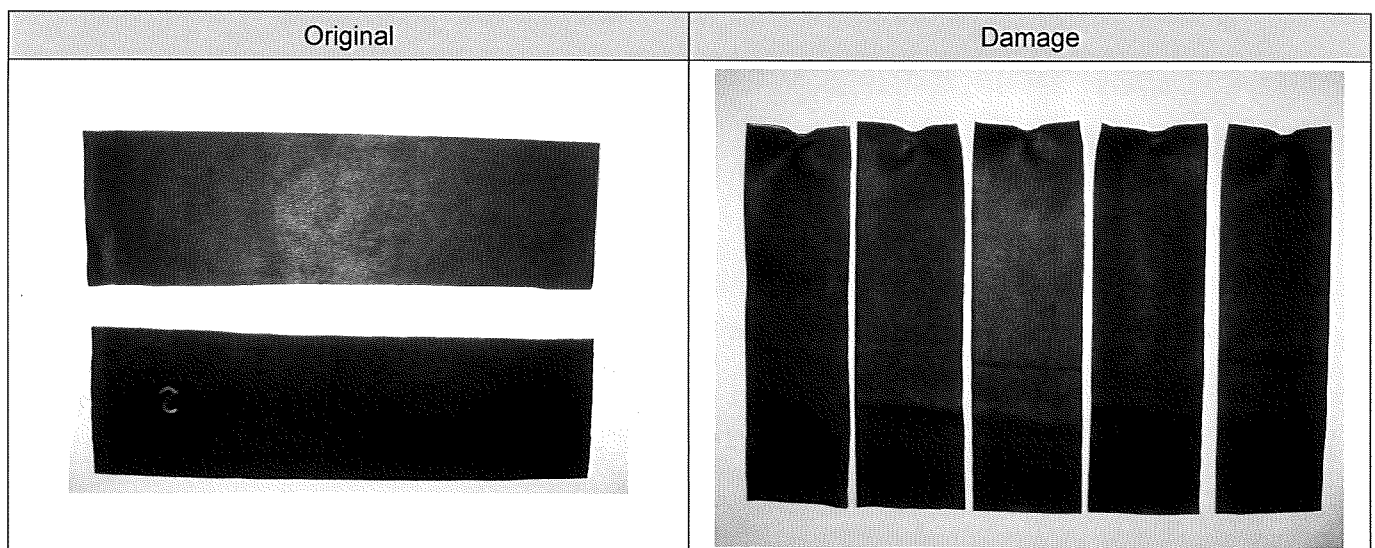
$$B = \frac{s}{t} * 60$$

B – burn rate [$\frac{\text{mm}}{\text{min}}$]

s - "burned length [mm]" from 1st mark,
max. 254 mm

t - "burn time [s]" of burned length

Pictures of the test samples:



² Demands of **Directive 95/28/ ECC**, Annex I, clause 7.2 on burning behaviour of materials used in the interior construction particular vehicle classes (motor coaches with more than 22 inmates):

The result of the test shall be considered satisfactory if, taking the worst test results into account, the horizontal burning rate is not more than 100 mm/minute or if the flame extinguishes before reaching the last measuring point.