

Fire Test Laboratory
 Airbus Operations GmbH
 Airbusallee 1
 D-28199 Bremen
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Report No. : 11-0496

Certificate

Designation: Cargo Lining
 A 320/Cargo Compartment/NewPlacard
Manufacturer of specimen: ORAFOL Europe GmbH
Manufacturer designation: D25571329000 + ORAJET 3951-010
Batch no.: FTN10122688 + 12121231
Customer: ORAFOL Europe GmbH, Dr. B. Görig
Order No.: CoOr-01
Certified with/ Customer's statement of conformity: See documents attached to Order No. CoOr-01

Material / Structure of Specimen *Testside* ↓
 ORAJET 3951-010, selfadhesive PVC Film (see Technical Data Sheet + Practical Information No. 2), consists of:
 PVC film, 0,055mm
 Solvent based polyacrylate adhesive, 26 g/m²
 D25571329000 = Airbus Sidewall Panel / See also Drawing No. D25571329 / consist of :
 DAN95H / Protection Foil
 ABS5047-48A / Prepreg GFK
 ABS5047-48A / Prepreg GFK
 LN29967A5Z080 / Honeycomb Core
 ABS5047-49A / Prepreg GFK
 } Manufacturer: EFW Dresden GmbH, Germany

Test Standard	Requirement	Results:	Passed	Failed
CS/JAR/FAR/part 25 App.F, Part I, Para (a)(1)(ii)	CS/JAR/FAR Part 25 §25.853(a) Change 15/Amdt.25-91	⇒	XXX	
AITM 2.0002 B	ABD0031	⇒	XXX	
AITM 2.0007	ABD0031	⇒	XXX	
AITM 3.0005	ABD0031	⇒	XXX	

For detailed results see page 2 pp.

The fire test laboratory is part of the design organization Airbus Deutschland GmbH. The Organisation is approved by the European Airworthiness Authority (EASA) with DOA Approval No. EASA.21J.031

"Certified hereby that above mentioned material/part have been tested in accordance with the terms of the order, addressed requirements and mentioned test standards"

Signed : Busch
 Busch (Department ESWI)

16. March 2011
 Date

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Test Report No.: 11-0496

Type of test: **Determination of the Resistance of Material to Flame**
Vertical Bunsen Burner Test, 12s Ignition Time

Test standard: CS/JAR/FAR 25 , App. F, part I & AITM 2.0002 B

Material/Part Designation: Cargo Lining
A 320/Cargo Compartment/NewPlacard

Manufacturer Designation: D25571329000 + ORAJET 3951-010

Thickness (mm): 8,6mm + 0,06mm

Test results:

	Sample No.				Mean	Airworthiness Limit	Customer Limit
	1	2	3	4			
Burn length [mm]	55	61	53		56	203	203
After flame time [s]	0	0	0		0	15	15
After flame time of drips [s]	0	0	0		0	5	5
Drips (y/n)	n	n	n				

Remarks: Transversal

The material/part has been tested in accordance with the above mentioned test standard

Date of test: 15. Mrz. 11

Performed by: 
Pehling

Checked : Busch (Department ESWI)



Type of test : Determination of the Specific Optical Density of Smoke

Test standard: CS/JAR/FAR 25 , App. F, part V & AITM 2.0007

Material/Part Designation: Cargo Lining
 A 320/Cargo Compartment/NewPlacard

Manufacturer Designation: D25571329000 + ORAJET 3951-010

Thickness (mm): 8,6mm + 0,06mm

Test results:

Flaming Mode

Sample No.	Weight [g]	Dm*	
		within 4 min	at [s]
1	10,2	31	240
2	10,5	32	240
3	10,4	33	240
4			

Non-Flaming Mode

Sample No.	Weight [g]	Dm*	
		within 4 min	at [s]
5			
6			
7			
8			

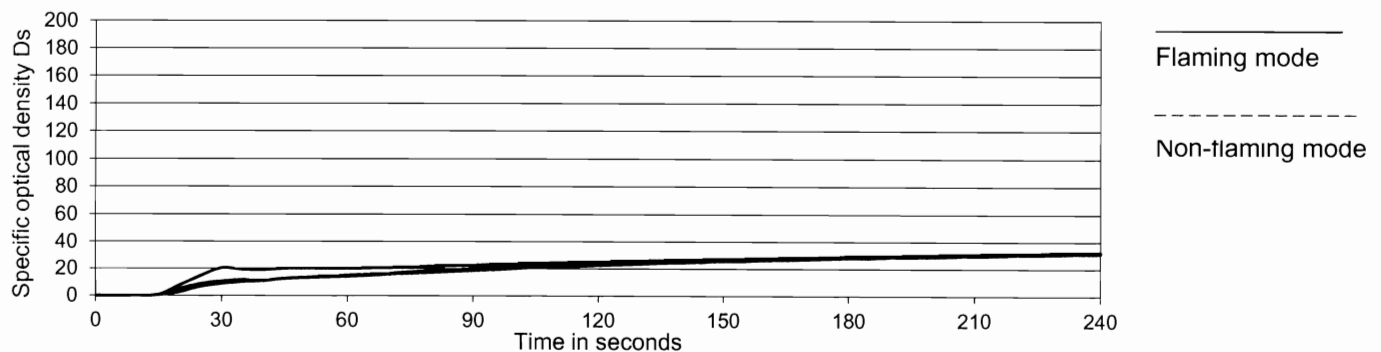
Mean	32
Rel. standard deviation	1,9%
Airworthiness Limit:	-----
Customer Limit:	100

Mean	
Rel. standard deviation	
Airworthiness Limit:	-----
Customer Limit:	-----

*Dm = Ds max = maximum specific optical density

Heatflux [W/cm²]: 2,475

Remarks:



The material/part has been tested in accordance with the above mentioned test standard

Date of test: 15. Mrz. 11

Performed by: *Pehling*
 Pehling

Checked : Busch (Department ESWI)

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Test Report No. : 11-0496

Type of test: Determination of the Toxic Components on Combustion Products

Test standard: AITM 3.0005
Material/Part Designation: Cargo Lining
 A 320/Cargo Compartment/NewPlacard
Manufacturer Designation: D25571329000 + ORAJET 3951-010

Test results: **Flaming Mode***

Sample No.	HCN Hydrogen Cyanide	CO Carbon Monoxide	NOx Nitrous Gases	SO2 Sulfur Dioxide	HF Hydrogen Fluoride	HCl Hydrogen Chloride
1	2	276	6	8	**pos.	10
2	2	284	8	9	18	20
3					17	
4						
Mean	2	280	7	9	18	15
Airbus Limit	150	1000	100	100	100	150
Customer Limit	150	1000	100	100	100	150

Non - Flaming Mode*

Sample No.	HCN Hydrogen Cyanide	CO Carbon Monoxide	NOx Nitrous Gases	SO2 Sulfur Dioxide	HF Hydrogen Fluoride	HCl Hydrogen Chloride
5						
6						
7						
8						
Mean						
Airbus Limit	150	1000	100	100	100	150
Customer Limit	150	1000	100	100	100	150

* All values in ppm.

3 samples only necessary if the concentration exceeds 50% of the maximum permitted value

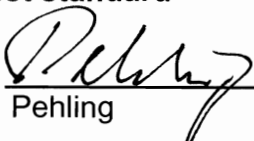
	HCN	CO	NOx	SO2	HF	HCl
Analysis method	Dräger	FGA5	FGA5	FGA5	Potentiometrie	Dräger

Remarks : **detected with Dräger tubes

The material/part has been tested in accordance with the above mentioned test standard

Date of test: 15. Mrz. 11

Performed by:


Pehling

Checked : Busch (Department ESWI)