

Test Report No.: 8621 / 28695

Date: 16.03.2010

BASF SE
Brandschutztechnik
G-KTF/EG - A521
D-67056 Ludwigshafen

Test according to

ASTM E 662 : 2003

Standard Test Method for Specific Optical Density of Smoke Generated by Solid Materials

Client:

Henkel AG & Co. KGaA Heidelberg
Standort Heidelberg
Henkel-Teroson-Strasse 57

69123 Heidelberg

The results refer exclusively to the tested samples.

As an accredited Test Laboratory, the BASF SE Fire Safety Technology Test Centre is authorized to conduct fire tests in accordance with DIN EN ISO/IEC 17025 : 2005.
DAR-Register-No.: DGA-PL-6430.06



BASF – Fire Safety Technology

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Receipt of order:: 17.02.2010
Receipt of samples: 05.03.2010
Date of test: 16.03.2010

1. Material: (Information supplied by client)

Terostat MS 9399

Colour:

Field of application: bonding of windows

2. Summary of results and classification:

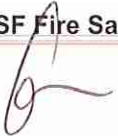
Average specific optical smoke density D_s :	with flame	1,5 Min.	1
	with flame	4 Min.	6
	without flame	1,5 Min.	24
	without flame	4 Min.	411
Average of maximum of specific optical smoke density D_m :	with flame		25
	without flame		559

Remarks:

Any conclusions we draw about the fire safety of the materials we test are based exclusively on the results of the test under the conditions described.
The extent to which such conclusions can be applied to non-tested material under non-standard conditions is the sole responsibility of the customer and is done so at his own risk

BASF Fire Safety Technology

Ludwigshafen, 17.03.2010


Dr. Henn
Head of Laboratory


Engelhardt
Technician

BASF – Fire Safety Technology

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3. Material:

Information supplied by client:

Terostat MS 9399
Adhesive on anodized Aluminum

Additional description by laboratory

Colour: black

4. Samples:

Sample size (determined by BASF):

Length:	75,40	[mm]	Weight:	28,95	[g]
Width:	74,60	[mm]	Weight per unit area:	5,14	[kg/m ²]
Thickness:	3,10	[mm]	Density:		[kg/m ³]
Outer diameter:		[mm]	Remarks:		
Inner diameter:		[mm]			

Pre-conditioning:

	Conditions	Duration days
Client (Information supplied by client)		
Laboratory:	Standard 23/50-1 DIN 50014	11

Sample preparation:

Exposed surface: coated surface

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5. Test Results:

Flaming mode					
Sample	1	2	3		Mean
Test duration [min]	Specific optical density				
1	1,27	0,86	0,70		0,94
1,5	1,83	1,13	0,99		1,32
2	2,48	2,94	1,14		2,19
3	3,41	8,11	3,60		5,04
4	4,39	7,56	4,64		5,53
5	5,59	8,27	5,66		6,51
6	8,01	9,72	14,29		10,67
7	14,61	11,06	20,21		15,29
8	19,96	11,74	23,59		18,43
D _m	34,99	13,45	26,73		25,06
t _{Dm} [s]	1008	893	746		882,33
D _c	6,83	3,25	5,49		5,19
D _m (corr)	28,16	10,19	21,24		19,86
Non flaming mode					
Sample	4	5	6		Mean
Test duration [min]	Specific optical density				
1	1,44	0,70	3,44		1,86
1,5	10,31	5,41	55,36		23,70
2	71,61	51,38	144,71		89,23
3	311,44	228,18	341,14		293,59
4	403,20	370,65	459,23		411,03
5	464,06	435,00	543,44		480,83
6	499,02	486,80	612,57		532,80
7	513,59	522,17	622,21		552,66
8	505,02	533,85	616,95		551,94
D _m	514,11	539,06	625,19		559,45
t _{Dm} [s]	410,00	543	411		454,67
D _c	11,86	8,75	8,25		9,62
D _m (corr)	502,25	530,31	616,93		549,83

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Observations:

6. Test equipment:

Test apparatus	PE 0018
Caliper gauge	MB 0029
Balance	MW 0007
Stop-watch	MU 0017

7. Requirements:

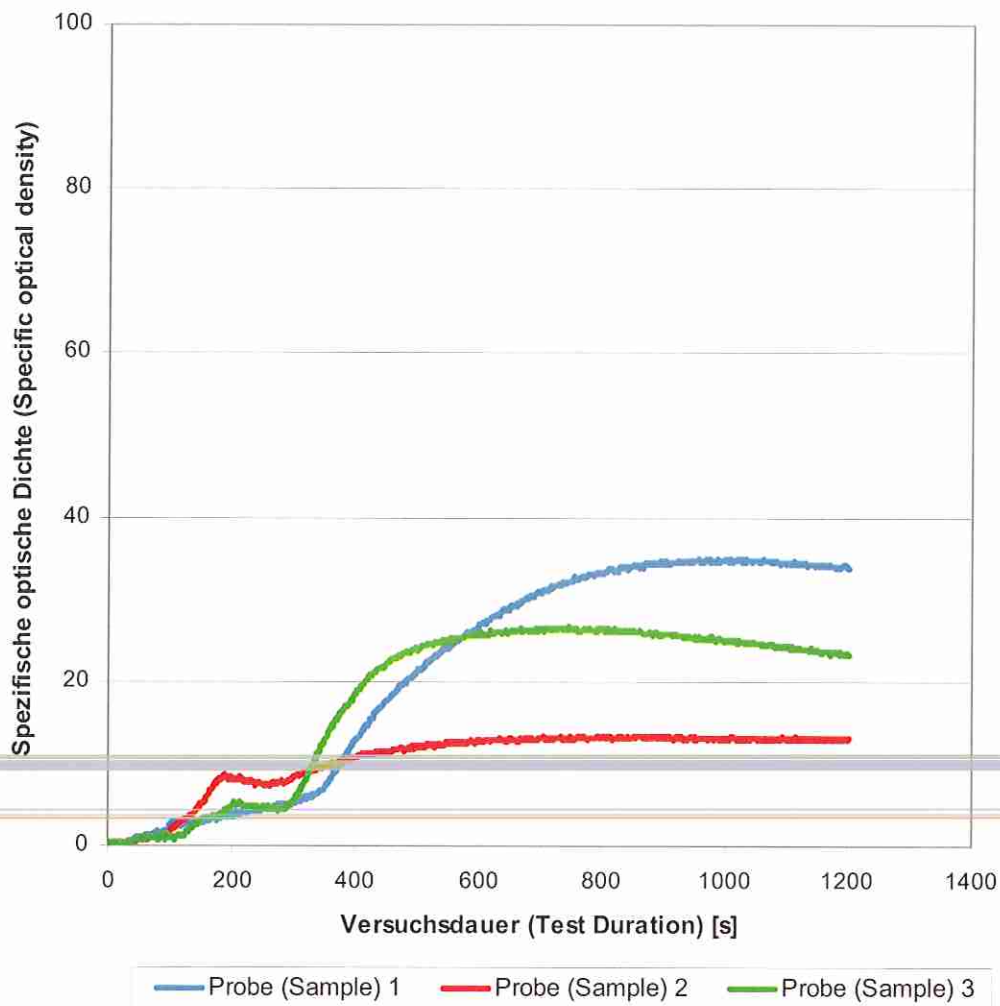
Standard ASTM E 662 does not define any requirements.

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8. Charts:

8.1 Specific optical density with flame

Spezifische optische Dichte (Specific optical density)



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8.2 Specific optical density without flame

Spezifische optische Dichte (Specific optical density)

