BASF – Fire Safety Technology

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Test Report No.: 14767 / 54189 Date: 08.02.2022

BASF SE
Brandschutztechnik
E-CPB/EG - A521
D-67056 Ludwigshafen

Test according to

ECE-R 118, Annex 6 : 2020-02

Regulation No 118 of the Economic Commission for Europe of the United Nations (UN/ECE) — Uniform technical prescriptions concerning the burning behaviour of materials used in the interior construction of certain categories of motor vehicles Annex 6: Test to determine the horizontal burning rate of materials

Client:

Semperit Technische Produkte GmbH

Triester Bundesstr. 26

2632 Wimpassing
Österreich

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 : 2018.
DAkkS-Register-No.: D-PL-14121-07-00

ilac-MRA DAkkS Deutsche Akkreditierungsstelle D-PL-14121-07-00

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Receipt of order: 17.01.2022
Receipt of samples: 03.02.2022
Date of test: 08.02.2022

1. Material: (information supplied by client)

E2441 Rubber (EPDM) black 2 mm

Colour: Black

End use application: Rubber sheeting

2. Summary of results and classification:

Parameter	Measured value	Classification
Burning rate	**0 mm/min**	**Satisfactory**
Second gauge mark reached	**No**	

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. – Decision rule acc. to DIN EN ISO/IEC 17025:2018: - Wherever statements of conformity are made, no measurement uncertainty is taken into account.

BASF Fire Safety Technology **Ludwigshafen, 08.02.2022**

Dr. Houssin
Head of Laboratory

Kaiser
Technician

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3. Material:

Information supplied by client

E2441 Rubber (EPDM) black 2 mm

Additional description by laboratory

4. Samples:

Dimensions (determined by BASF test laboratory):

Length:	355,00	[mm]	Weight:	90,21	[g]
Width:	97,83	[mm]	Weigt per unit area:	2,59	[kg/m²]
Thickness:	2,30	[mm]	Density:	1129,34	[kg/m³]
Outer diameter:		[mm]	Remarks:		
Inner diameter:		[mm]			

Pre-conditioning:

	Conditions	Duration days
Client (information supplied by client)	Standard 23/50 ISO 554	
Laboratory:	Standard 23/50 ISO 554	5

Sample preparation: Specimen tested as received (no sampling by test laboratory).

Exposed surface: Identical surfaces

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5. Test results:

Sample No.			1	2	3	4	5
Supporting grid used		[Yes/no]	yes	yes	yes	yes	yes
Burning drips / debris		[s]	---	---	---	---	---
Ignition time		[s]	8	9	8	11	11
Extinguishing time		[s]	64	40	35	45	37
Gauge marks reached	1.	[s]	---	---	---	---	---
	2.	[s]	---	---	---	---	---
Sample was extinguished before reaching of 2nd gauge mark		[Yes/no]	yes	yes	yes	yes	yes
Burning time from 1st gauge mark		[s]	---	---	---	---	---
Burning distance from 1st gauge mark		[mm]	---	---	---	---	---
Burning rate		[mm/min]	0	0	0	0	0
Burning rate	Avg.	[mm/min]	0				
	Max.	[mm/min]	0				

Observations:

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6. Test equipment:

Test apparatus	PK	0015
Caliper gauge	MB	0041
Balance	MW	0007
Stop watch	MU	0045

7. Requirements:

Standard	Criteria	Classification
ECE regulation No. 118, section 6.2	Maximum horizontal burning rate ≤ 100 mm/min or self-extinguishment before reaching the last measuring point *	satisfactory
FMVSS 302 49 CFR 571.302	Maximum horizontal burning rate ≤ 102 mm/min (4 in/min), or material stops burning before it has burned for 60 s from the first mark, and has not burned more than 51 mm from the first mark.	Requirements fulfilled

* According to ECE-R 118, Annex 6, Clause 5, “the burning rate (B) for each sample is only calculated in the case where the flame reaches the last measuring point or the end of the sample”.