

IMSYS Engineering Service Ltd. Head office: 1033 Budapest, Mozaik street 14/A Site: 5100 Jászberény, Necső telep 1. Phone: (+36) 1 430 0014 www.imsys.hu 	Test report Material Testing Laboratory	Testing laboratory accredited by NAH under No. NAH-1-1830/2023.
		Identification number: AFN-7.08.01-A
		Contract number: 121/2024.
Version: 1.3. (27. 04. 2023.)	Page 1 / 5	Test report No.: 2024/17-1.

TEST REPORT

Client: *NORRES Schlauchtechnik GmbH*

Date of releasing test report: 26. 04. 2024

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1. TEST SAMPLE

Sample: plastic film specimens (**Fig. 1**)
 Sample ID's: AIRDUC PUR 351 FOOD – 0.95 mm
 Date of sample receiving: 17. 04. 2024



Figure 1. Received plastic film samples

2. CLIENT

Name: NORRES Schlauchtechnik GmbH
 Address: Stadthafen 12-16, 45881 Gelsenkirchen, Germany

3. TEST IS CARRIED OUT BY

Name: Imsys Kft. Material Testing Laboratory
 Address: 1. Necső telep, 5100 Jászberény

4. PURPOSE OF THE TEST, APPLIED METHODOLOGY

The purpose of the test was to investigate the samples provided by the Client with the following methods:

- Flammability test according to UL94:2013 - Horizontal Burning Test.
- Sample preparation with conditioning in a climatic chamber.

5. TEST CONDITIONS

5.1. DATE OF THE TEST:

19. 04. 2024. – 25. 04. 2024.

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5.2. EQUIPMENTS:

Combustion chamber: Wazau, UL94

Serial number: 14001

Date of calibration: 27. 10. 2023.

Climate chambers:

CTS C-70/350

Serial number: 137214

Date of calibration: 23. 08. 2022.

5.3. CONDITIONING:

Prior to examination, 3 specimens were conditioned in CTS C-70/350 type climate chamber, with the following parameters:

Temperature: 23 ± 2 °C

Humidity: $50 \pm 5\%$

Conditioning time: 48 hours

After conditioning, the samples were tested within 30 minutes.

5.4. TESTING CONDITIONS

5.4.1 UL94-2013 flammability test - Horizontal Burning Test

Test sample 0.95 mm thick specimen

Arrangement horizontal

Number of specimens tested: 3 specimens / sample

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6. TEST RESULTS

Test results and classification of the sample can be seen in **Table 1**. The detailed results of the measurement can be found in the following chapter.

Table 1: Summary of results

Sample	Classification
AIRDUC PUR 351 FOOD – 0.95 mm	HB

6.1. FLAMMABILITY TEST

The performed flammability test (UL94) results are in **Table 2**. Based on the examinations, AIRDUC PUR 351 FOOD achieves HB grade.

Table 2 Horizontal flammability results of AIRDUC PUR 351 FOOD – 0.95 mm after conditioning at 23 °C/50% RH

Specimen Nr.	Marking exceeded by flame front	Length of burnt section (mm)	Burning time (s)	Burning speed (mm/min)
1	0	0	0	0.00
2	0	0	0	0.00
3	0	0	0	0.00
Maximum	-	-	-	0.00
Classification	-	-	-	HB

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The test results presented in this report relate only to the sample/specimen tested.

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Material Testing Laboratory of IMSYS Ltd.

The test was accomplished by:



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Béla Molnár

Measurement group leader

Verified by:



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Dr. Ferenc Ronkay, PhD.

Head of laboratory