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TEST RESULT AT A GLANCE

596,449Oxygen transmission rate — $\text{cm}^3/(\text{m}^2 \cdot 24 \text{ h} \cdot 0.1 \text{ MPa})$ Measured on **SK grade, 50 μm thick film** at **23 °C, 0 % RH**. In plain terms: about **596 litres of oxygen** pass through one square metre of this film every 24 hours under a pressure difference of 0.1 MPa.

1 · REPORT AND SAMPLE IDENTIFICATION

Report No.	(2024)QSWJ04149	Certificate ID	231020341458
Test item	Oxygen transmission rate	Test category	Commissioned inspection
Sample name	WESTRU® PDMS film	Grade and thickness	SK50 — 50 μm
Batch No.	20240712	Sample quantity	1 sheet
Applicant / manufacturer	Hangzhou Westru Technology Co., Ltd. — Room 501, Building 9, No.68 Dakang Road, Qingshanhu Street, Lin'an District, Hangzhou, Zhejiang 310000, China		
Sample received	2024-07-17 · delivered by the applicant	Test period	2024-07-19 to 2024-07-23
Issue date	2024-07-24	Report length	3 pages (original, Chinese)

2 · LABORATORY AND TEST METHOD

Issuing laboratory	Jiangsu Plastics and Plastic Packaging Product Quality Inspection and Testing Center / Jiangsu Chengxin Inspection Testing and Certification Co., Ltd.		
Test location	No.188 Dongwaihuan Road, Jiangyin City, Jiangsu, China	Sample handling	Submitted by the applicant
Test standard	GB/T 1038.1-2022 — Plastics: test method for gas transmission of film and sheeting, Part 1: differential-pressure method		

3 · TEST RESULT AS REPORTED

No.	Test item	Unit	Requirement	Test result	Judgment
1	Oxygen transmission rate (23 °C, 0 % RH)	$\text{cm}^3/(\text{m}^2 \cdot 24 \text{ h} \cdot 0.1 \text{ MPa})$	—	596,449	—

As a commissioned test without a specified requirement, no pass/fail judgment is given by the laboratory. The figure is a measured value obtained by the differential-pressure method.

4 · HOW TO READ AND USE THIS FIGURE

- It is a measured value, not a specification limit.** It was obtained on SK grade at 50 μm from batch 20240712 and represents the material behaviour of our standard PDMS film.
- Transmission depends on thickness.** Thinner film transmits faster and thicker film slower. For a first estimate you can scale roughly with thickness, but we recommend confirming with a test on the gauge you intend to use.
- Transmission is gas-specific.** Oxygen, carbon dioxide, nitrogen and water vapour each pass at their own rate. Tell us the gas and the thickness and we will quote the matching figure.
- Where this matters.** Gas-permeable membranes for cell culture and oxygenation, microfluidic degassing, wearable and flexible devices, and any application where air must pass while water or dust must not.
- The original report follows.** Pages 2 to 5 reproduce the Chinese inspection and test report in full, including the laboratory's seals and signatures.

Note on translation. The English text on this page is a summary prepared by Hangzhou Westru Technology Co., Ltd. for the convenience of overseas customers. The following pages reproduce the original Chinese inspection and test report in full; in case of any discrepancy, the original Chinese report prevails.



231020341458



中国认可
国际互认
检测
TESTING
CNAS L0311

检验检测报告

INSPECTION AND TEST REPORT



No.(2024)QSWJ04149

产品名称：微思创®PDMS 薄膜

Sample Name

委托单位：杭州微思创科技有限公司

Applicant

检验检测类别：委托检验

Inspection & Test Category

江苏省塑料及塑料包装产品质量检验检测中心

Jiangsu Plastics and Plastic Packaging Product Quality Inspection and Testing Center

江苏澄信检验检测认证股份有限公司

Jiangsu Chengxin Inspection Testing and Certification Co., Ltd

检验检测报告

INSPECTION AND TEST REPORT

No.(2024)QSWJ04149

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委托单位信息 Applicant	杭州微思创科技有限公司 浙江省杭州市临安区青山湖街道大康路68号9幢501		
生产单位信息 Manufacturer	杭州微思创科技有限公司 浙江省杭州市临安区青山湖街道大康路68号9幢501		
样品名称 Sample Name	微思创®PDMS 薄膜	样品数量 Sample Quantity	1张
样品描述 Sample Description	规格型号: SK50, 厚度50微米 批号: 20240712		
以上信息及样品由委托方提供并确认, 本公司不承担证实客户提供信息的准确性、适当性和(或)完整性的责任。The above information and sample(s) were provided and confirmed by the applicant, and the company does not undertake the responsibility of confirming the accuracy, appropriateness and(or) integrity of the information provided.			
样品到达方式 Way of Sample Receipt	委托方送样	样品到达日期 Date of Sample Receipt	2024-07-17
检验检测日期 Test Period	2024-07-19~2024-07-23	检验检测地点 Test Place	江阴市东外环路188号
检验检测依据 Inspection & Test Standard(s)	GB/T 1038.1-2022 《塑料制品 薄膜和薄片 气体透过性试验方法 第1部分 差压法》		
判定依据 Judgment basis			
检验检测结论 Inspection & Test Conclusion	样品经检测, 检测结果见第2-3页。 签发日期: 2024-07-24 Issuing Date Y-M-D		
备注 Note			

批准:
Approver

孙锦彩

孙锦彩

审核:
Reviewer

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陈璇

陈璇

检 验 检 测 结 果

INSPECTION AND TEST RESULT(S)

No. (2024)QSWJ04149

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序号 No.	检验检测项目 Test Item	单位 Unit	技术要求 Requirement	检验检测结果 Test Result	单项评价 Judgment
1	氧气透过量 (23℃, 0%RH)	cm ³ /(m ² · 24h· 0.1MPa)	——	596449	——
备 注 Note	——				



样品照片

Sample picture

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No. (2024)QSWJ04149



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杭州微思创科技有限公司
Ximi

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