

TEST REPORT

No. : SHIN1904020079MR

Date : Apr 09, 2019

Page: 1 of 6



CUSTOMER NAME: IEKO, INC
ADDRESS: 130 WEST UNION STREET PASADENA, CA 91103, 323-574-1210

Sample Name : 25 micron apparel/bag film

Product Specification : 25 micron apparel/bag film

Above information and sample(s) was/were submitted and confirmed by the client. SGS, however, assumes no responsibility to verify the accuracy, adequacy and completeness of the sample information provided by client.

SGS Ref. No. : SHHL1903013565OT
Date of Receipt : Apr 02, 2019
Testing Start Date : Apr 02, 2019
Testing End Date : Apr 09, 2019
Test result(s) : For further details, please refer to the following page(s)
(Unless otherwise stated the results shown in this test report refer only to the sample(s) tested)

Signed for
SGS-CSTC Standards Technical
Service (Shanghai) Co., Ltd.

Xia Hai

Xia Hai
Authorized signatory



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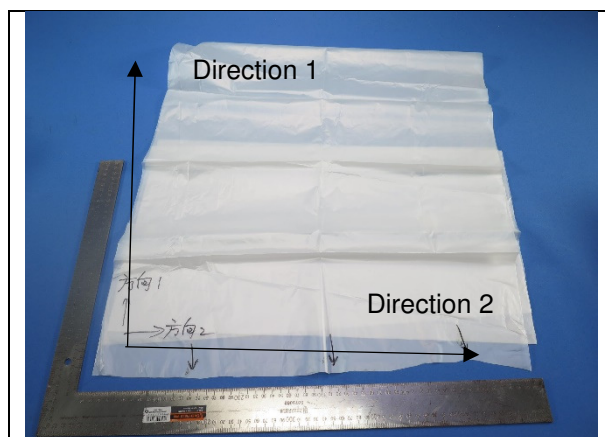
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Summary of Results:

No.	Test Item	Test Method	Result		Conclusion
1	Puncture Resistance	ASTM D5748-95(2012)	22.9 N		/
2	Tear Strength	ASTM D1004-13	Direction 1	2.71 N	/
			Direction 2	3.17 N	
3	Tensile Test	ASTM D882-18	Direction 1	400 %	/
			Direction 2	390%	
4	Thickness	ASTM D6988-13 Method A	0.023 mm		/

Note: Pass : Meet the requirements;
Fail : Does not meet the requirements;
/ : Not Apply to the judgment.

Original Sample Photo:



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1. Test Item: Puncture Resistance

Sample Description: Film

Test Method: ASTM D5748-95(2012)

Test Condition:

Testing speed: 250 mm/min

Lab Environmental Condition: (23±2)°C, (50±5)%RH

Test Result:

Test Item	Test Result
Puncture Resistance	22.9 N

Note: Test specimens were cut from the sample.



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2. Test Item: Tear Strength

Sample Description: Film

Test Method: ASTM D1004-13

Test Condition:

Specimen thickness: Direction 1:0.026 mm; Direction 2:0.025 mm

Testing speed: 51 mm/min

Lab Environmental Condition: 23±2°C, 50±5%RH

Test Result:

Test Item	Test Result	
Tear Strength	Direction 1	2.71 N
	Direction 2	3.17 N

Note: Test specimens were cut from the sample.



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3. Test Item: Elongation at Break

Sample Description: Film

Test Method: ASTM D882-18

Test Condition:

Specimen width: 25 mm

Specimen thickness: Direction 1:0.025 mm; Direction 2:0.024 mm

Testing speed: 500 mm/min

Grip separation:50 mm

Lab Environmental Condition:(23±2)°C,(50 ± 5)%RH

Test Result:

Test Item	Test Result	
Elongation at Break	Direction 1	400 %
	Direction 2	390%

Note: Test specimens were cut from the sample.



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4. Test Item: Thickness

Sample Description: Film

Test Method: ASTM D6988-13 Method A

Test Condition:

Diameters of the pressure foot: 10 mm

Pressure: 70 kPa

Lab Environmental Condition: 23±2°C, 50±5%RH

Test Result:

Test Item	Test Result
Thickness	0.023 mm

Note: Test specimens were cut from the sample.

***** End of report*****



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