

TEST REPORT

No. : SZIN2104005049PS

Date : Apr 29, 2021

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scan to see the report



SZIN2104005049PS

CUSTOMER NAME: SUZHOU SHI XUAN ELECTRONIC MATERIALS CO., LTD
ADDRESS: BUILDING 8, DONGXIN INDUSTRIAL, LINGSHAN ROAD, XUKOU
TOWN, WUZHONG DISTRICT, SUZHOU 215100, P.R. CHINA

Sample Name : MOTH EYE®ANTI-REFLECTIVE ACRYLIC

Material and Mark : ARP05

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. : GZIN2104022208MR
Date of Receipt : Apr 23, 2021
Testing Start Date : Apr 23, 2021
Testing End Date : Apr 29, 2021
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
Services Co., Ltd. Shenzhen Branch
Testing Center

James Zheng
Authorized signatory



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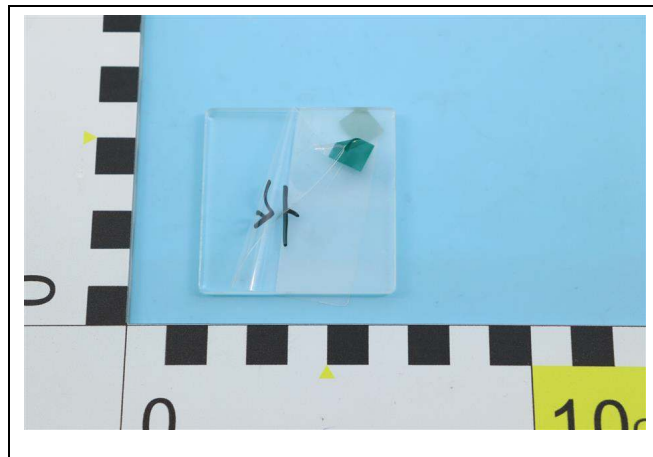
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Summary of Results:

No.	Test Item	Test Method	Result
1	Light Transmittance	ISO 9050:2003 Section 3.3	98.6%
2	Light Reflectance	With reference to ISO 9050:2003 Section 3.4.1 and client's requirement	1.4%
3	UV-Transmittance	ISO 9050:2003 Section 3.6	0.2%

Original Sample Photo:



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1. Test Item: Light Transmittance

Sample Description: Plastic part

Test Method: ISO 9050:2003 Section 3.3

Test Condition:

Specimen thickness: 3.25mm

Test model: Transmittance

Wavelength range: 380nm ~780nm

Wavelength interval: 5nm

Scan speed: Middle

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

Test Result:

Test Item	Test Result
Light Transmittance	98.6%

Note:

1. The protected films of both sides was ripped off before test.
2. The writing surface was faced to the light source.

Original data:

Wavelength, nm	Spectral transmittance, %		
	#1	#2	#3
780	96.77	96.60	96.54
775	96.67	96.57	96.56
770	96.73	96.71	96.56
765	96.85	96.68	96.86
760	96.84	96.74	96.70
755	96.99	96.88	97.04
750	96.90	96.79	96.86
745	97.02	96.87	97.09
740	96.98	96.96	96.96
735	96.98	96.78	97.08



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Wavelength, nm	Spectral transmittance, %		
	#1	#2	#3
730	97.11	97.12	97.22
725	97.17	96.99	97.14
720	97.26	97.24	97.46
715	97.45	97.37	97.53
710	97.54	97.32	97.54
705	97.55	97.64	97.68
700	97.65	97.67	97.80
695	97.83	97.61	97.84
690	97.87	97.85	97.89
685	97.89	97.97	97.96
680	97.97	98.11	98.01
675	98.06	98.15	98.08
670	98.18	98.23	98.08
665	98.23	98.28	98.10
660	98.32	98.29	98.15
655	98.40	98.44	98.25
650	98.47	98.47	98.29
645	98.53	98.56	98.34
640	98.59	98.59	98.38
635	98.68	98.69	98.45
630	98.71	98.68	98.50
625	98.75	98.73	98.56
620	98.76	98.70	98.58
615	98.83	98.74	98.64
610	98.86	98.76	98.68
605	98.86	98.77	98.72
600	98.87	98.74	98.75
595	98.85	98.72	98.77



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Wavelength, nm	Spectral transmittance, %		
	#1	#2	#3
590	98.84	98.72	98.81
585	98.82	98.68	98.81
580	98.76	98.64	98.82
575	98.77	98.63	98.83
570	98.73	98.61	98.79
565	98.72	98.63	98.77
560	98.68	98.62	98.75
555	98.66	98.65	98.73
550	98.62	98.64	98.69
545	98.62	98.64	98.64
540	98.62	98.64	98.59
535	98.60	98.66	98.55
530	98.58	98.63	98.49
525	98.57	98.58	98.43
520	98.54	98.55	98.39
515	98.50	98.49	98.34
510	98.43	98.40	98.31
505	98.36	98.35	98.30
500	98.26	98.22	98.24
495	98.12	98.13	98.19
490	98.01	98.04	98.15
485	97.88	97.95	98.09
480	97.75	97.91	98.02
475	97.65	97.86	97.90
470	97.57	97.82	97.73
465	97.47	97.73	97.56
460	97.36	97.57	97.39
455	97.19	97.36	97.22



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Wavelength, nm	Spectral transmittance, %		
	#1	#2	#3
450	97.02	97.16	97.06
445	96.79	96.93	96.87
440	96.53	96.68	96.66
435	96.25	96.43	96.43
430	95.89	96.13	96.11
425	95.49	95.77	95.71
420	94.89	95.20	95.06
415	93.83	94.08	93.90
410	91.42	91.59	91.42
405	86.23	86.33	86.24
400	74.60	74.65	74.60
395	55.07	54.95	54.89
390	28.87	28.63	28.52
385	9.37	9.18	9.11
380	1.70	1.66	1.65



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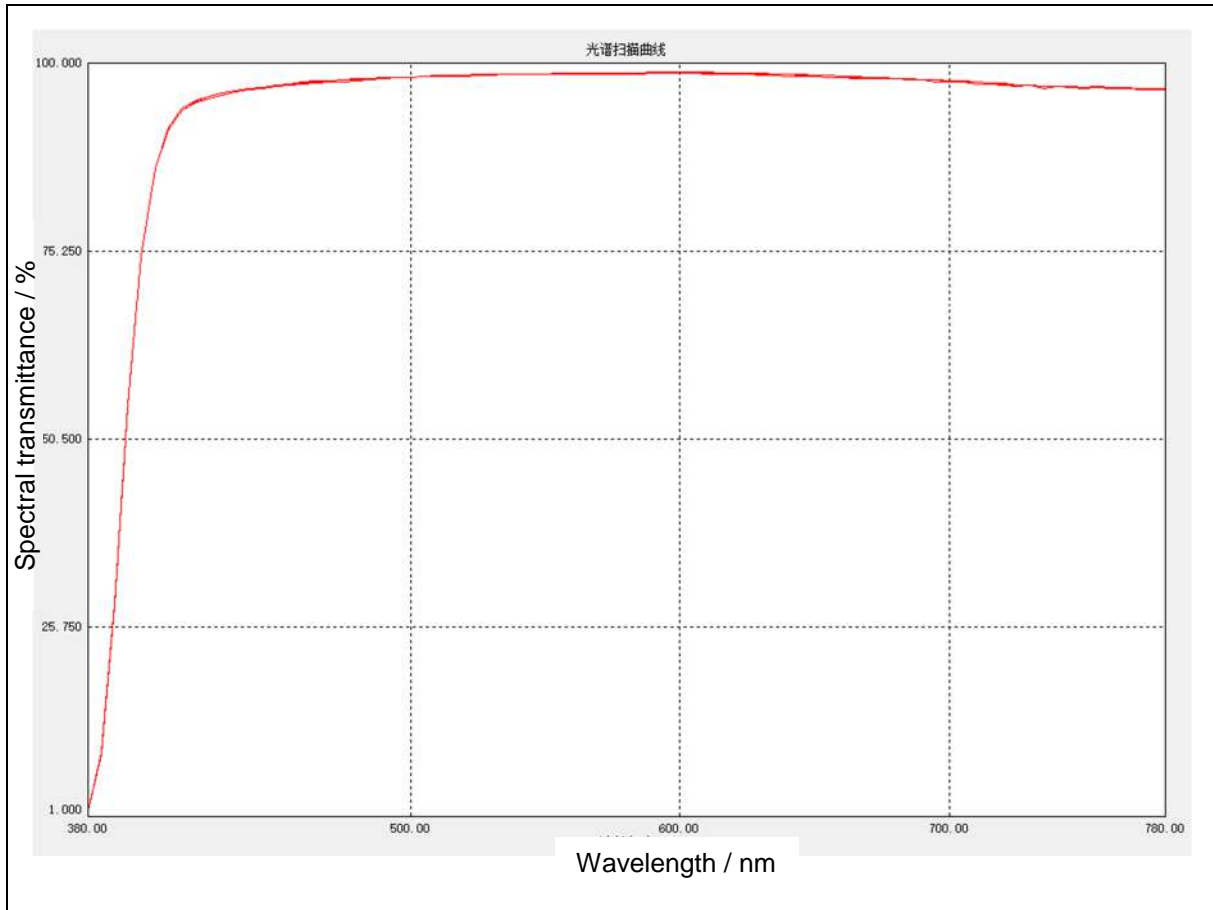
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Curve:



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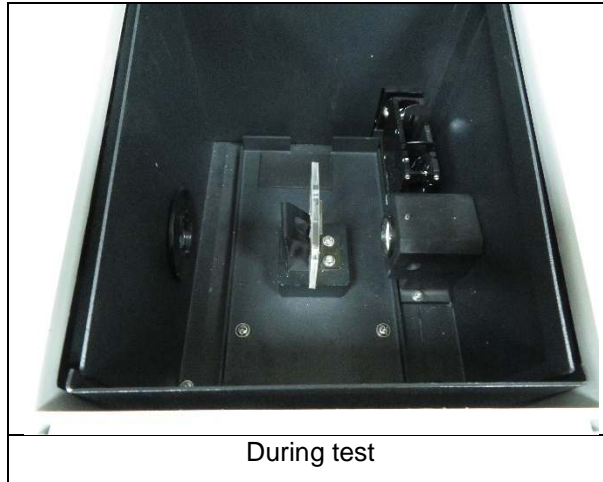
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Test Photo:



Equipment Information:

Equipment	Model	Equipment No.	Calibration date	Next Calibration date
Ultra-violet Spectrophotometer	TU-1810DASPC	GZMR-PL-E225	2020-06-05	2021-06-04



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2. Test Item: Light Reflectance

Sample Description: Plastic part

Test Method: With reference to ISO 9050:2003 Section 3.4.1 and client's requirement

Test Condition:

Specimen thickness: 3.25mm

Test model: Reflectance

Wavelength range: 360nm ~750nm

Wavelength interval: 10nm

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

Test Result:

Test Item	Test Result
Light Reflectance	1.4%

Note:

1. The protected films of both sides was ripped off before test.
2. The writing surface was faced to the light source.

Original data:

Wavelength, nm	Spectral reflectance, %		
	#1	#2	#3
750	7.11	6.99	6.76
740	6.77	6.66	6.42
730	6.30	6.19	5.96
720	5.70	5.59	5.37
710	4.89	4.75	4.55
700	4.01	3.86	3.73
690	3.29	3.14	3.09
680	2.81	2.66	2.64
670	2.49	2.34	2.34
660	2.32	2.19	2.17
650	2.15	2.03	2.02



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Wavelength, nm	Spectral reflectance, %		
	#1	#2	#3
640	2.00	1.88	1.86
630	1.88	1.77	1.74
620	1.76	1.67	1.65
610	1.65	1.57	1.54
600	1.58	1.49	1.45
590	1.49	1.41	1.37
580	1.42	1.34	1.28
570	1.37	1.31	1.24
560	1.34	1.29	1.23
550	1.31	1.27	1.21
540	1.31	1.27	1.22
530	1.32	1.29	1.22
520	1.35	1.33	1.24
510	1.38	1.37	1.27
500	1.43	1.41	1.32
490	1.48	1.47	1.38
480	1.55	1.55	1.46
470	1.62	1.64	1.53
460	1.71	1.74	1.61
450	1.81	1.86	1.72
440	1.94	1.99	1.87
430	2.10	2.18	2.04
420	2.31	2.42	2.25
410	2.42	2.56	2.37
400	2.11	2.24	2.10
390	1.46	1.55	1.48
380	1.42	1.49	1.45
370	2.09	2.27	2.17



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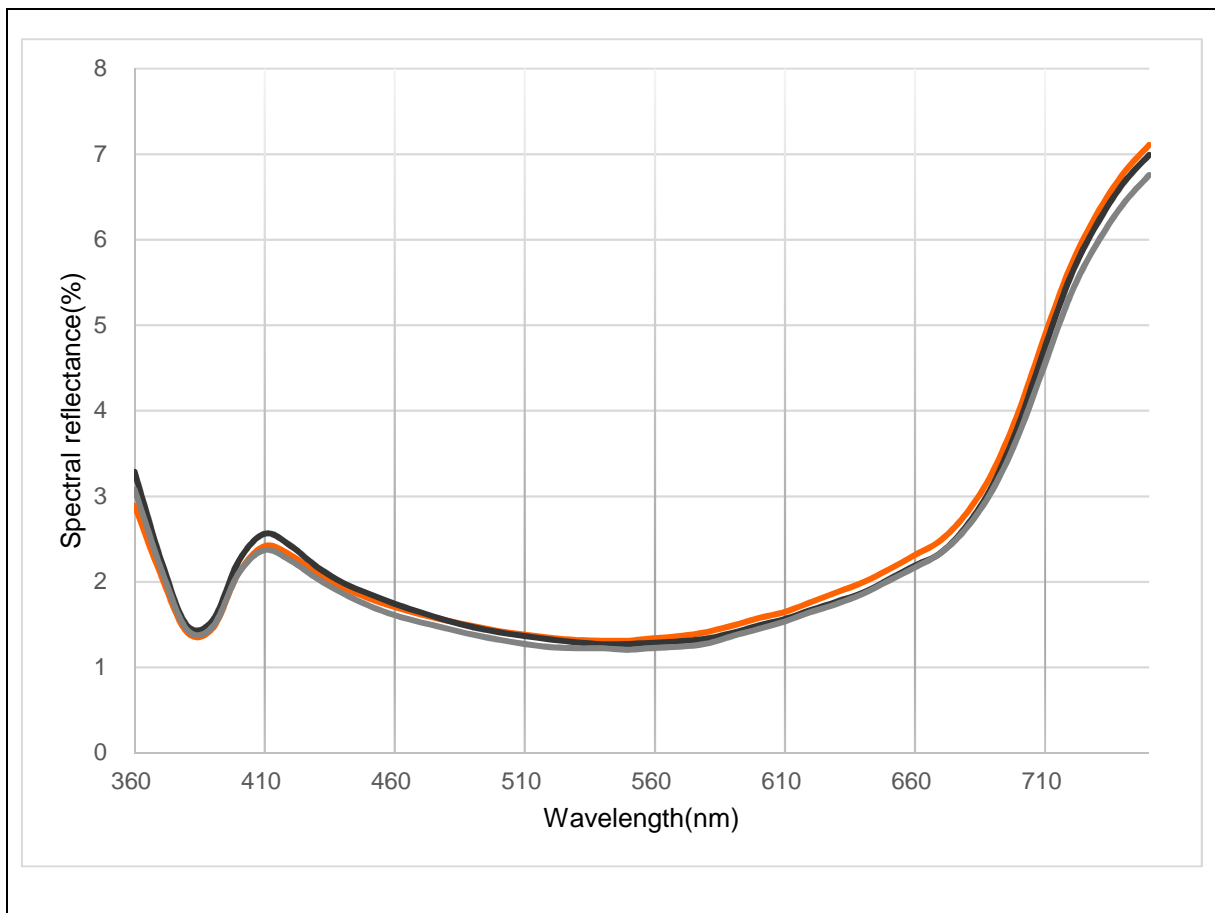
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Wavelength, nm	Spectral reflectance, %		
	#1	#2	#3
360	2.89	3.29	3.08

Curve:



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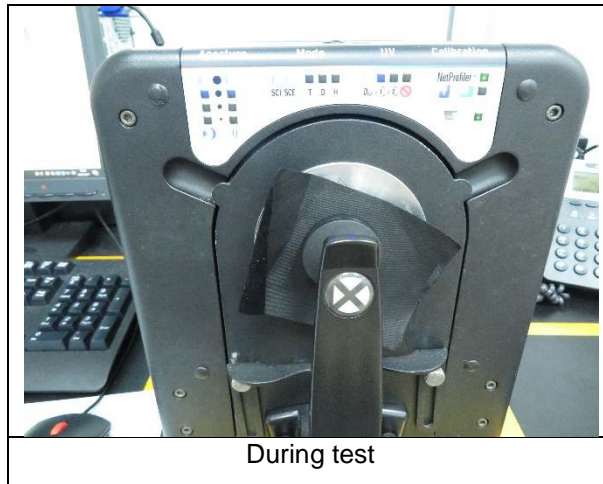
TEST REPORT

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Test Photo:



Equipment Information:

Equipment	Model	Equipment No.	Calibration date	Next Calibration date
Sphere Spectrophotometer	Color i7	GZMR-AG-E155	2021-01-18	2022-01-17



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3. Test Item: UV-Transmittance

Sample Description: Plastic part

Test Method: ISO 9050:2003 Section 3.6

Test Condition:

Specimen thickness: 3.25mm

Test model: Transmittance

Wavelength range: 300nm ~380nm

Wavelength interval: 5nm

Scan speed: Middle

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

Test Result:

Test Item	Test Result
UV-Transmittance	0.2%

Note:

1. The protected films of both sides was ripped off before test.
2. The writing surface was faced to the light source.

Original data:

Wavelength, nm	UV spectral transmittance, %		
	#1	#2	#3
380	1.48	1.51	1.52
375	0.36	0.34	0.38
370	0.26	0.26	0.28
365	0.06	0.09	0.13
360	-0.01	0.06	0.10
355	0.01	0.05	0.10
350	0.03	0.05	0.08
345	0.01	0.06	0.09
340	0.03	0.04	0.08
335	0.03	0.05	0.08



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TEST REPORT

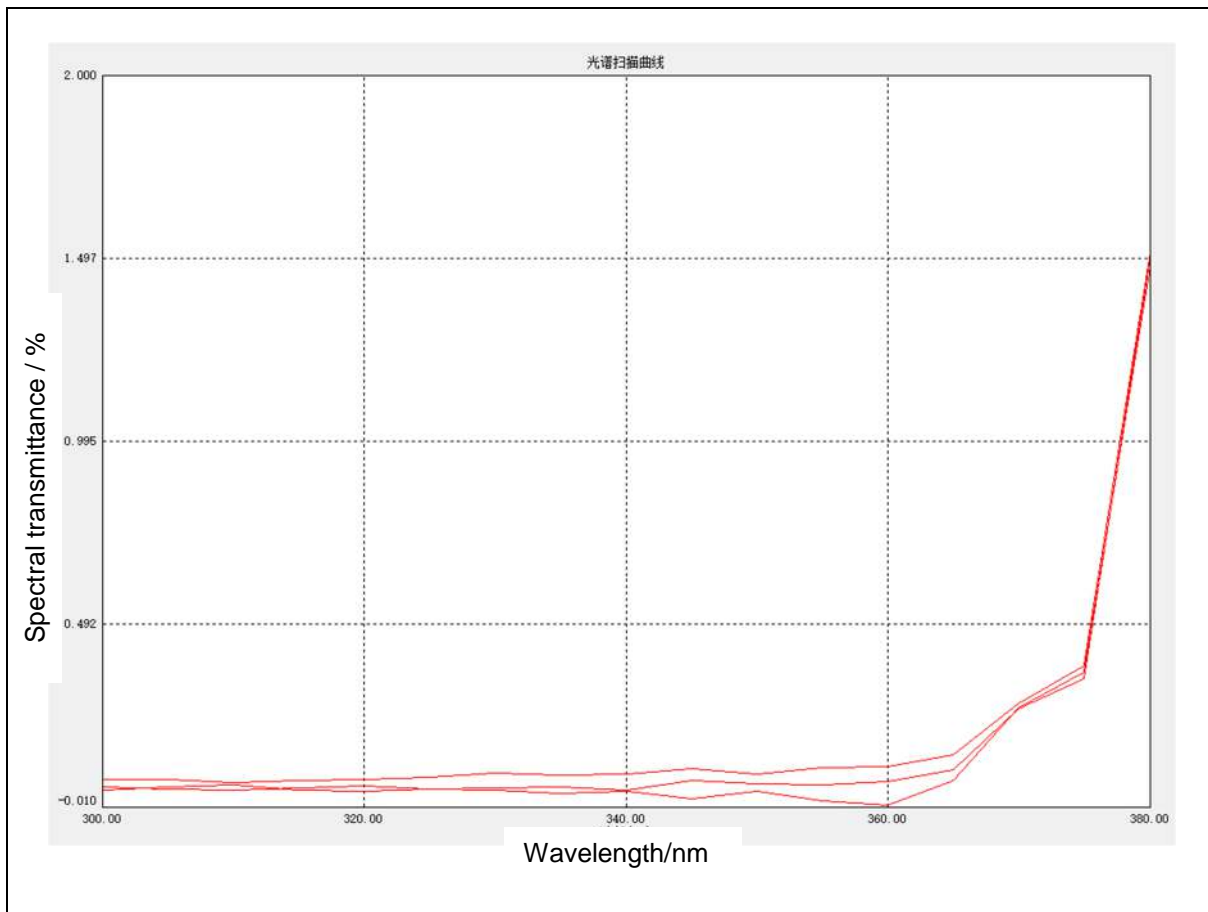
No. : SZIN2104005049PS

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Wavelength, nm	UV spectral transmittance, %		
	#1	#2	#3
330	0.04	0.04	0.08
325	0.04	0.04	0.07
320	0.03	0.05	0.07
315	0.04	0.04	0.06
310	0.05	0.04	0.06
305	0.04	0.04	0.07
300	0.04	0.05	0.07

Curve:



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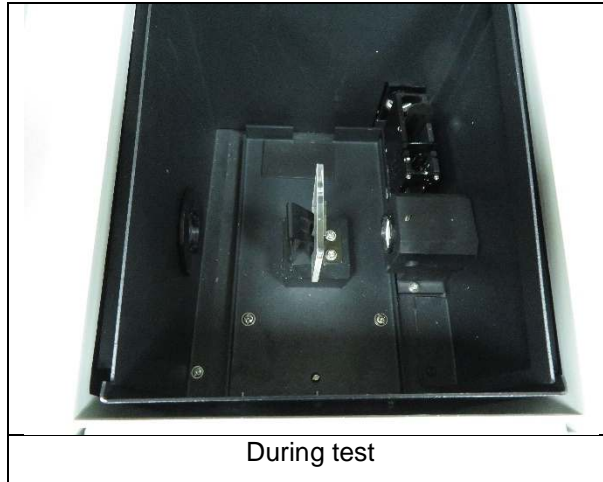
TEST REPORT

No. : SZIN2104005049PS

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Test Photo:



Equipment Information:

Equipment	Model	Equipment No.	Calibration date	Next Calibration date
Ultra-violet Spectrophotometer	TU-1810DASPC	GZMR-PL-E225	2020-06-05	2021-06-04

Appendix information:

The above tests were carried out by SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch.

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



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Shenzhen Branch Testing Center - Materials Laboratory

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