TEST REPORT

No. : QDIN2408001532PL02_EN
Date : 2024-09-06

Scan to see the report
QDIN2408001532PL02
Verification:
check.sgsonline.com.cn

CUSTOMER NAME: QINGDAO JUMBO INTERNATIONAL TRADE CO.,LTD

ADDRESS: NO.33A06, EAST HALL, YIHE BUILDING A, NO.10 HONG KONG MIDDLE ROAD, SOUTH DISTRICT, QINGDAO, CHINA

Sample Name : Texture HDPE Board

Manufacturer : Qingdao Jumbo International Trade Co.,Ltd

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.

****

Date of Receipt : 2024-08-08

Testing Period : 2024-08-08 ~ 2024-09-05

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 (Qingdao) Co., Ltd..

Kayla Chu

Kayla Chu
Authorized signatory

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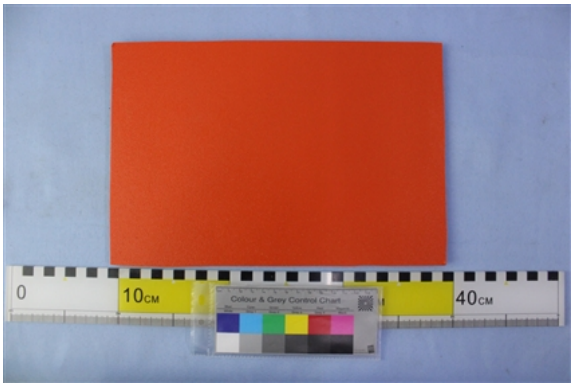
Summary of Results:

No.	Test Item	Test Method	Result	Conclusion
1	Light Ageing Test-UV Exposure	ISO 4892-3:2016 cycle 1 & ISO 105-A02:1993/Cor.2:2005	See result	See result
2	Shore Hardness	ISO 868:2003	See result	Pass
3	Flexural Strength	ISO 178:2019 Method A	See result	Pass
4	Tensile Test	ISO 527-1:2019 & ISO 527-2:2012	See result	Pass
5	Charpy Notched Impact Strength	ISO 179-1:2023	See result	Pass

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

Original Sample Photo:



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TEST REPORT

No. : QDIN2408001532PL02_EN

Date : 2024-09-06

1. Test Item: Light Ageing Test-UV Exposure

Sample Description: Plastic part

Test Method: ISO 4892-3:2016 cycle1 & ISO 105-A02:1993/Cor.2:2005

Test Condition :

UV Exposure cycle : cycle 1

Lamp type: UVA-340

8h UV at (60±3)℃ BPT, 0.76W/(m^2•nm)@340nm

4h condensation at (50±3)℃ BPT

Exposure duration: 500h

Test Result:

Test Item	Test Result	Client's Requirement	Conclusion
Light Ageing Test-UV Exposure	Grey scale: 5	≥4	Pass
	Appearance : No significant changes	/	/

Note:

1. According to ISO 105-A02:1993/Cor.2:2005, the grey scale was determined under the D65 standard light, with scale 5 as the best and scale 1 as the worst.
2. The results were carried out within 1 hour after above specified durations for the intermediate inspection as well as at the end of the exposure.

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No. : QDIN2408001532PL02_EN

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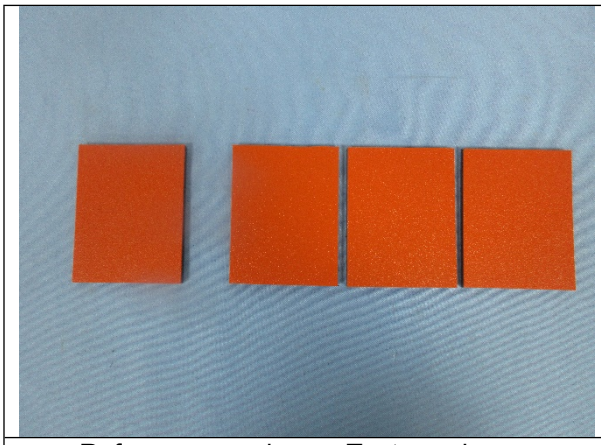
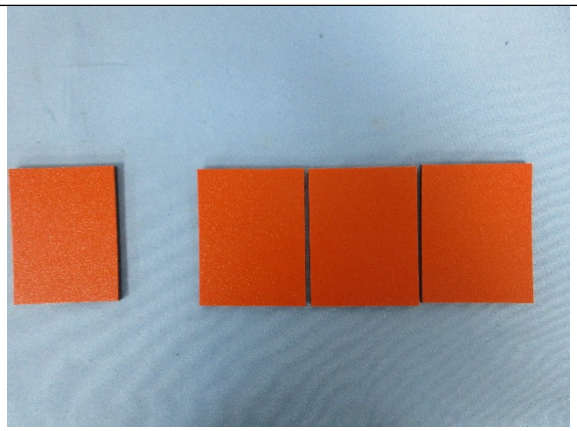
Test Photo:

	
Reference specimen Test specimens Before test	Reference specimen Test specimens After test

Equipment Information:

Equipment	Model	Equipment No.	Calibration date	Next Calibration date
Accelerated Weathering Tester	QUV/se	POL-AG-E035	2024-07-15	2025-07-14
Spectralight QC	SpectraLight QC	POL-AG-E018	2024-07-15	2025-07-14

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TEST REPORT

2.Test Item: Shore Hardness

Sample Description: Plastic part

Test Method: ISO 868:2003

Test Condition:

UV Aging condition: See test item 1→(23±2)℃, (50±5)%RH, 24h

Specimen thickness: 6.04mm

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

Test Result:

Test Item	Test Result		Client's Requirement	Conclusion
Shore Hardness	As received	D/15:56	≥53 Shore D	Pass
	After UV ageing	D/15:55	≥52 Shore D	Pass

Note:

1. D/15:X Indicates that D is the type of durometer; 15 s is the reading time; X is the hardness value.
2. Test specimens were cut from the sample.
3. The test surface was orange red surface.

Equipment Information:

Equipment	Model	Equipment No.	Calibration date	Next Calibration date
Shore Type D Hardness Meter	Asker D	POL-PL-E007	2023-12-06	2024-12-05

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3. Test Item: Flexural Strength

Sample Description: Plastic part

Test Method: ISO 178:2019 Method A

Test Condition:

UV Aging condition: See test item 1→(23±2)℃, (50±5)%RH, 24h

Specimen: 100mm×15.2mm×6.06mm

Testing speed: 2.0mm/min

Span: 92mm

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

Test Result:

Test Item	Test Result		Client's Requirement	Conclusion
Flexural Strength	As received	20.8MPa	≥17.5MPa	Pass
	After UV ageing	19.6MPa	≥17MPa	Pass

Note:

1. Test specimens were cut from the sample.
2. The test surface was orange red surface.

Equipment Information:

Equipment	Model	Equipment No.	Calibration date	Next Calibration date
Universal Material Testing Machine	Z010	POL-PL-E005	2024-07-22	2025-07-21

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TEST REPORT

4. Test Item: Tensile Test

Sample Description: Plastic part

Test Method: ISO 527-1:2019 & ISO 527-2:2012

Test Condition:

UV Aging condition: See test item 1→(23±2)℃, (50±5)%RH, 24h

Specimen: Type 1B

Specimen thickness: 6.00mm

Testing speed: 50mm/min

Grip separation: 115mm

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

Test Result:

Test Item	Test Result		Client's Requirement	Conclusion
Tensile Strength	As received	20.7MPa	≥17.5MPa	Pass
	After UV Aging	20.6MPa	≥17MPa	Pass
Nominal Tensile Strain at Break	As received	180%	≥160%	Pass
	After UV Aging	170%	≥155%	Pass

Equipment Information:

Equipment	Model	Equipment No.	Calibration date	Next Calibration date
Universal Material Testing Machine	3367	POL-PL-E027	2024-05-28	2025-05-27

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TEST REPORT

5.Test Item: Charpy Notched Impact Strength

Sample Description: Plastic part

Test Method: ISO 179-1:2023

Test Condition:

UV Aging condition: See test item 1→(23±2)℃, (50±5)%RH, 24h

Specimen: ISO 179-1/1eA (Notch preparation: machining)

Specimen thickness: 6.04mm

The capacity of the pendulum: As received: 7.5J; After aging: 4J

Impact speed: As received: 3.8m/s; After aging: 2.9m/s

Span: 62mm

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

Test Result:

Test Item	Test Result		Client's Requirement	Conclusion
Charpy Notched Impact Strength	As received	16.6kJ/m^2 C(Complete break)	≥14kJ/m^2	Pass
	After UV Aging	14.6kJ/m^2 C(Complete break)	≥13kJ/m^2	Pass

Equipment Information:

Equipment	Model	Equipment No.	Calibration date	Next Calibration date
Pendulum-type Machine For Impact	CEAST 9050	POL-PL-E029	2024-05-07	2025-05-06

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

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