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检测
TESTING
CNAS L0167



TEST REPORT

No. : GZMR220902940301

Date : Sep 28, 2022

Page: 1 of 14



CUSTOMER NAME: CANADA PLASTICS & BELTING
ADDRESS: 100 DYNAMIC DRIVE, UNITS 5-7
SCARBOROUGH, ON M1V 5C4

Sample Name : CAST ACRYLIC SHEET

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. : CP22-051288

Date of Receipt : Sep 15, 2022

Testing Start Date : Sep 15, 2022

Testing End Date : Sep 28, 2022

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. Guangzhou Branch

Kelly Lee
Authorized signatory



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Summary of Results:

No.	Test Item	Test Method	Result		Conclusion
1	Tensile Test	GB/T 1040.1-2018 & GB/T 1040.2-2006	Tensile Strength	72.0MPa	Pass
			Tensile Strain at Break	4.7%	
2	Tensile Modulus	GB/T 1040.1-2018 & GB/T 1040.2-2006	3040MPa		Pass
3	Total Luminous Transmittance	GB/T 2410-2008 Method A	93.2%		Pass
4	Vicat Softening Temperature	GB/T 1633-2000 Method B50	108°C		Pass
5	Appearance	GB/T 7134-2008 Section 6.2	See result		Pass
6	Dimensional change after heating (shrinkage)	GB/T 7134-2008 Section 6.3.3, Appendix A	1.88%		Pass

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



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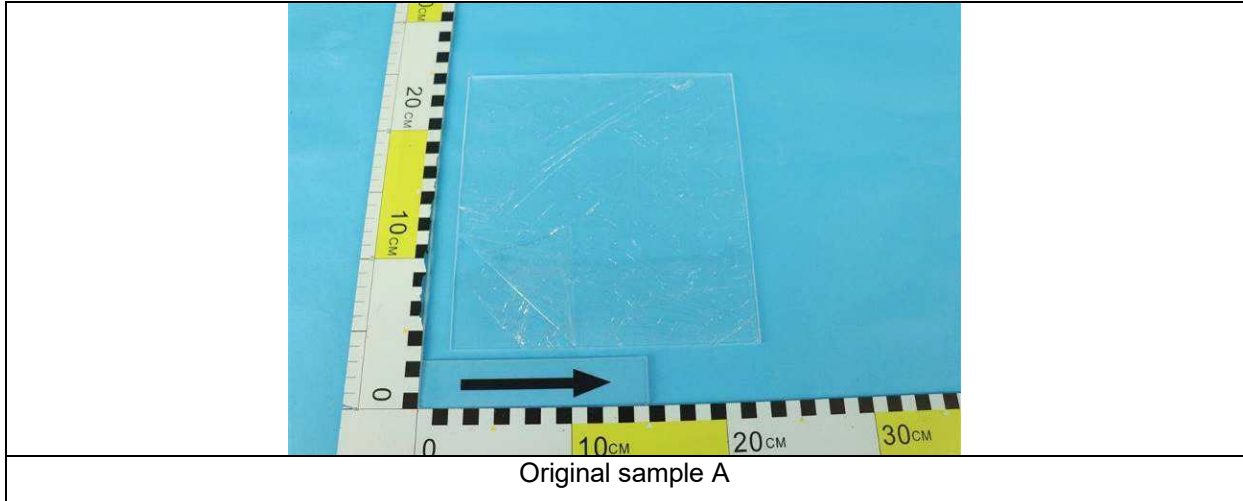
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Original Sample Photo:



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 Guangzhou Branch Testing, Calibration & Reliability Laboratory

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1. Test Item: Tensile Test

Sample Description: Plastic part

Test Method: GB/T 1040.1-2018 & GB/T 1040.2-2006

Test Condition:

Specimen: Type 1B

Specimen thickness: 3.39mm

Testing speed: 5mm/min

Gauge length: 50mm

Initial distance between grips: 115mm

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

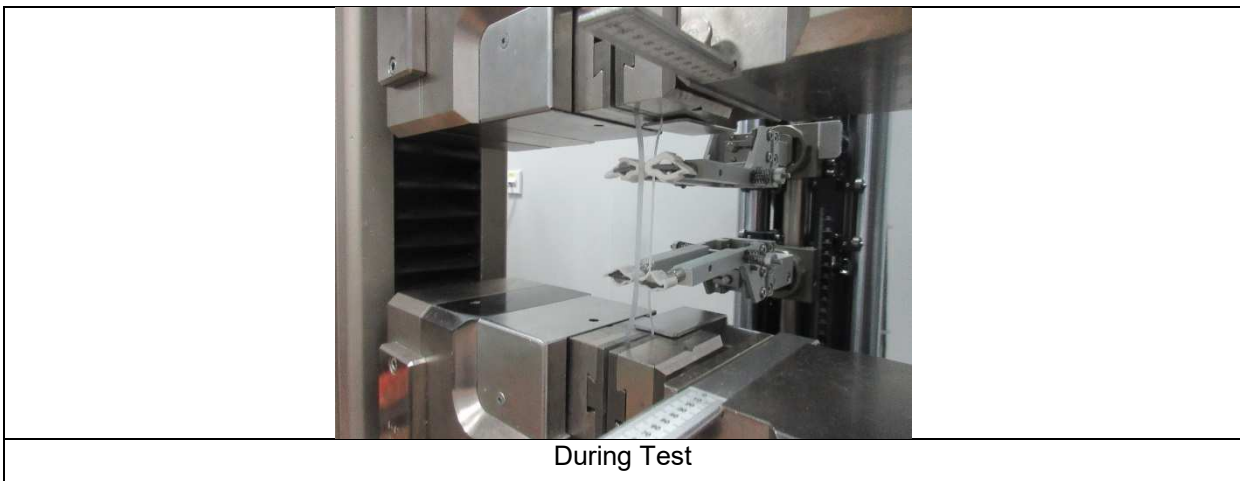
Test Result:

Test Item	Test Result	Client's Requirement	Conclusion
Tensile Strength	72.0MPa	≥70MPa	Pass
Tensile Strain at Break	4.7%	≥3%	Pass

Note:

1. The protected film of test specimens was ripped off before test.
2. Test specimens were cut from the sample.

Test Photo:



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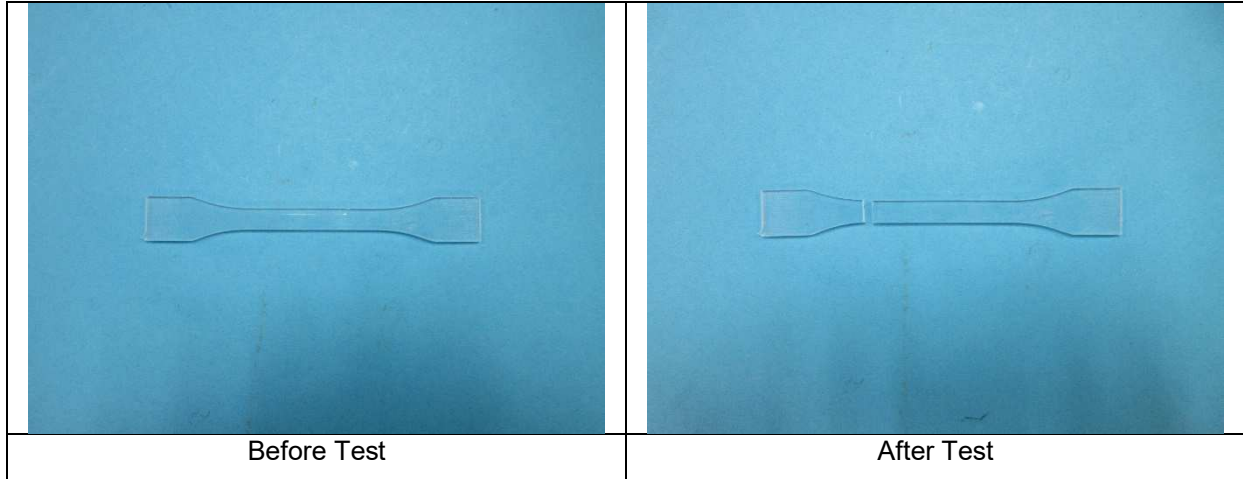
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Equipment Information:

Equipment	Model	Equipment No.	Calibration date	Next Calibration date
Universal Testing Machine	Z030	GZMR-PL-E140	2022-06-21	2023-06-20



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2.Test Item: Tensile Modulus

Sample Description: Plastic part

Test Method: GB/T 1040.1-2018 & GB/T 1040.2-2006

Test Condition:

Specimen: Type 1B

Specimen thickness: 3.39mm

Testing speed: 1mm/min

Gauge length: 50mm

Initial distance between grips:115mm

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

Test Result:

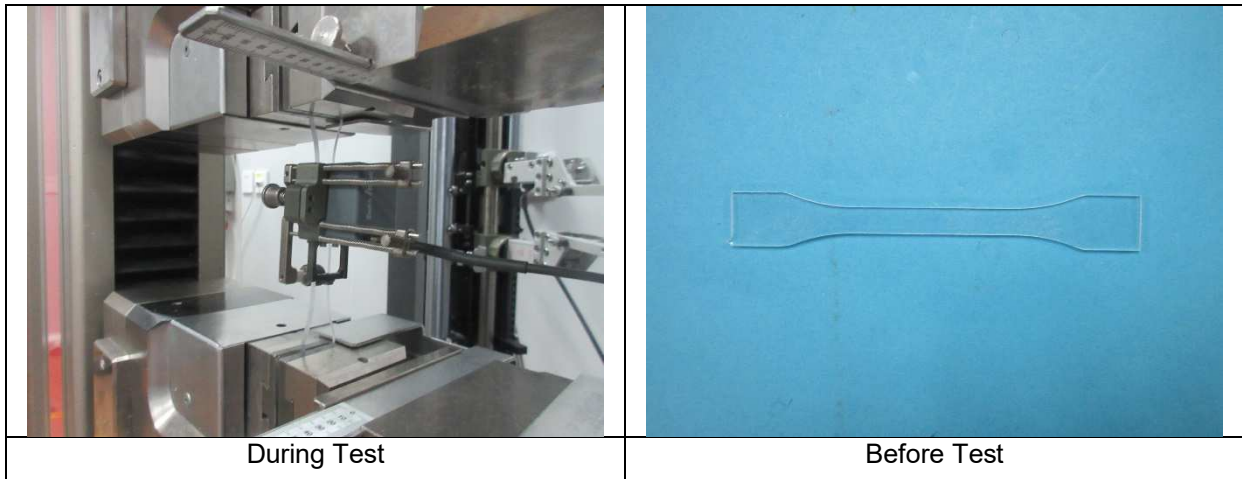
Test Item	Test Result	Client's Requirement	Conclusion
Tensile Modulus	3040MPa	≥3000MPa	Pass

Note:

1.The protected film of test specimens was ripped off before test.

2.Test specimens were cut from the sample.

Test Photo:



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Equipment Information:

Equipment	Model	Equipment No.	Calibration date	Next Calibration date
Universal Testing Machine	Z030	GZMR-PL-E140	2022-06-21	2023-06-20



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3. Test Item: Total Luminous Transmittance

Sample Description: Plastic part

Test Method: GB/T 2410-2008 Method A

Test Condition:

Specimen thickness: 3.39mm

Light source: C

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

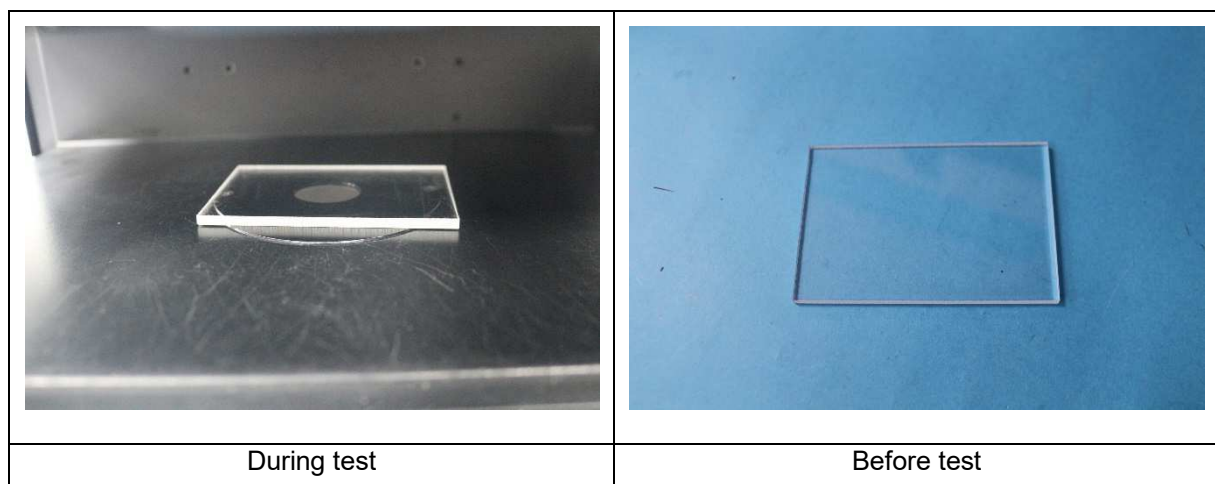
Test Result:

Test Item	Test Result	Client's Requirement	Conclusion
Total Luminous Transmittance	93.2%	≥91%	Pass

Note:

1. The protected film of test specimens was ripped off before test.
2. Test specimens were cut from the sample.

Test Photo:



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Equipment Information:

Equipment	Model	Equipment No.	Calibration date	Next Calibration date
Hazemeter	NDH5000	GZMR-PL-E083	2022-08-22	2023-08-21



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4. Test Item: Vicat Softening Temperature

Sample Description: Plastic part

Test Method: GB/T 1633-2000 Method B50

Test Condition:

Specimen thickness: 3.33 mm

Heat-transfer media: Silicone oil

Rate of temperature: 50°C/h

Load: 50N

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

Test Result:

Test Item	Test Result	Client's Requirement	Conclusion
Vicat Softening Temperature	108°C	≥ 100°C	Pass

Note:

1. Test specimens were cut from the sample.
2. The protected film of test specimens was ripped off before test.



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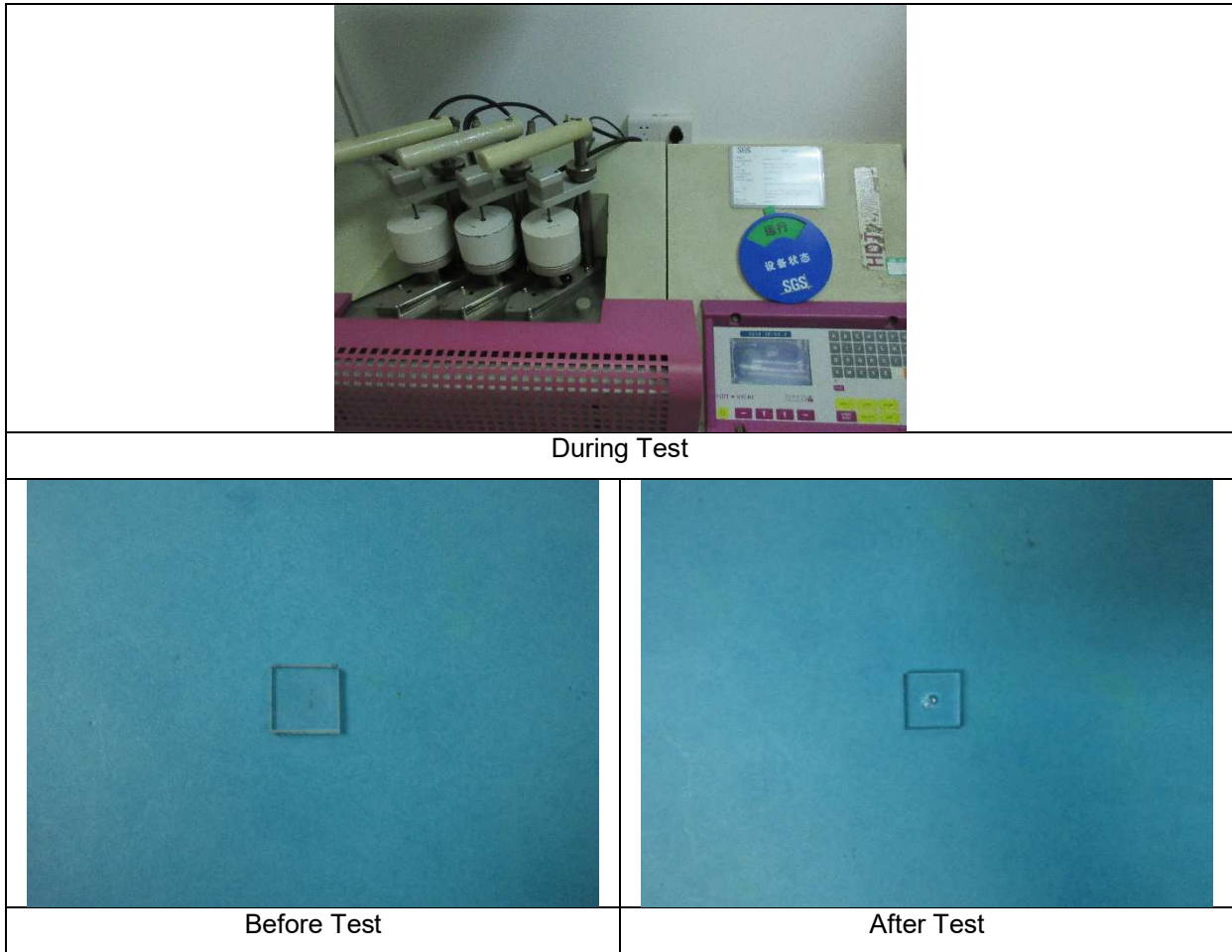
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Test Photo:



Equipment Information:

Equipment	Model	Equipment No.	Calibration date	Next Calibration date
HDT and VICAT Tester	P/N 6911.000	GZMR-PL-E009	2022-05-24	2023-05-23



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5. Test Item: Appearance

Sample Description: Plastic part

Test Method: GB/T 7134-2008 Section 6.2

Test Condition:

Visual inspection under natural light

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

Test Result:

Test Item	Test Result		Client's Requirement	Conclusion
Appearance	Surface Defect	No scratches greater than 3mm ² , smooth surface, no spots or other surface defects	No scratches greater than 3mm ² , smooth surface, no spots or other surface defects	Pass
	Internal Defect	No bubbles, impurities, cracks or other defects	No bubbles, impurities, cracks or other defects	Pass

Note: The protected film of test specimens was ripped off before test.



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6. Test Item: Dimensional change after heating (shrinkage)

Sample Description: Plastic part

Test Method: GB/T 7134-2008 Section 6.3.3, Appendix A

Test Condition:

Specimen: 100mm×100mm×3.43mm

Precondition : 70℃,48h→Cool down to 23 ± 2 °C in a desiccator

Test condition: 160℃,60min→Cool down to 23 ± 2 °C in a desiccator

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

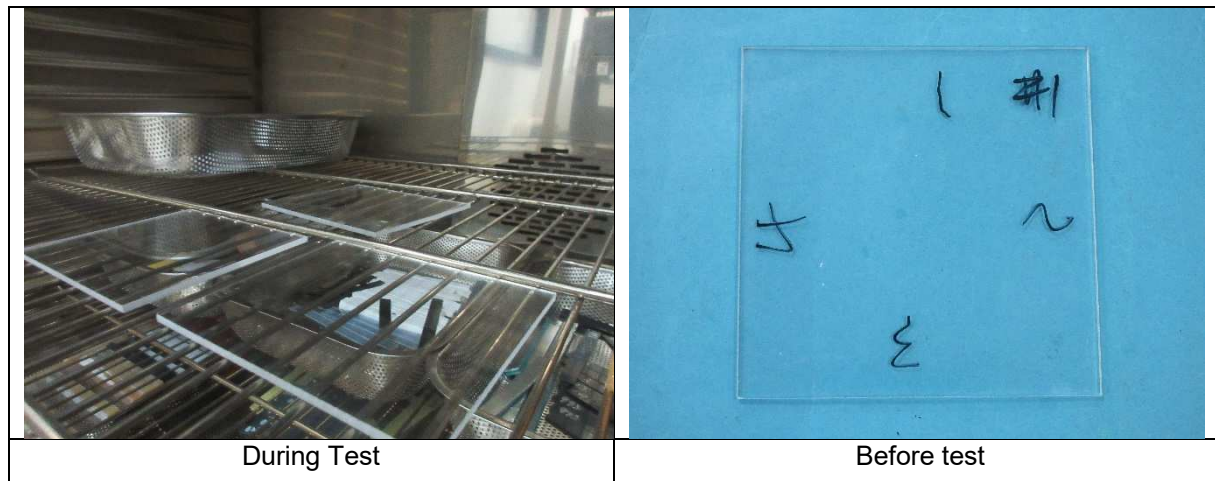
Test Result:

Test Item	Test Result	Client's Requirement	Conclusion
Dimensional change after heating (shrinkage)	1.88%	≤2.5%	Pass

Note:

1. Dimensional change after heating (shrinkage), %=(Dimension before heating -Dimension after heating)/Dimension before heating×100
2. Test specimens were cut from the sample.
3. The protected film of test specimens was ripped off before test.

Test Photo:



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Equipment Information:

Equipment	Model	Equipment No.	Calibration date	Next Calibration date
Digital Vernier Caliper	0~200mm/0.01m m	GZMR-PL-E041-22	2021-10-09	2022-10-08
Oven	UF750	GZMR-AG-E181	2021-09-28	2022-09-27
High Temperature Oven with Air Circulation	IAT-216	GZMR-AG-E179	2022-05-09	2023-05-08

Appendix information:

1. In the territory of the People's Republic of China, the test report without CMA logo expresses the test report shall only be used for client scientific research, teaching, internal quality control, product research and development, etc. and just for client internal reference.
2. The current test report is the English version of report number GZMR220902940301_CN. In case of any discrepancy between Chinese version and English version, the Chinese version shall prevail.
3. The test item 5,6 is not in the accredited testing scope of CNAS.

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



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