

TEST REPORT

No. : GZIN150901282CCM

Date : Sep. 24, 2015

Page: 1 of 12

CLIENT NAME: SHANDONG JUNCHUANG LOCK INDUSTRIAL CO., LTD.
ADDRESS: NO.160, SOUTH OF QINGXU ROAD, XUYUANZI INDUSTRIAL PARK, QINGYUN COUNTY, DEZHOU CITY, SHANDONG PROVINCE, CHINA

The following sample(s) was/ were submitted and identified on behalf of the client as:

Sample Name : Seal
SGS Ref. No. : GZIN1509038042MR, KV-15-08570XA
Manufacturer : SHANDONG JUNCHUANG LOCK INDUSTRIAL CO., LTD.
Test Performed : Selected test(s) as requested by applicant
Date of Receipt : Sep. 02, 2015
Test Period : Sep. 02, 2015 to Sep. 24, 2015

Test result(s) : Please refer to the following page(s)

*****To be continued*****

Signed for and on behalf of
SGS-CSTC Standards Technical Services Co.,Ltd
Guangzhou Branch

Chandler Wu
Technical Engineer



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TEST REPORT

No. : GZIN150901282CCM

Date : Sep. 24, 2015

Page: 2 of 12

Summary of test results

No.	Test Item	Test Method	Result		Conclusion
1	Density	ASTM D792-13 Method B	1.19 g/cm ³		/
2	Flexural Strength	ASTM D790-10 Procedure A	14181 psi		/
3	Horizontal Burning	UL 94-2013 Rev.3- 2015 Section 7	HB		/
4	Melt Mass Flow Rate	ASTM D1238-13 Procedure A	10.5 g/10min		/
5	Moulding Shrinkage	ASTM D955-08(2014)	Parallel to flow	0.84 %	/
			Perpendicular to flow	0.70 %	
6	Rockwell Hardness	ASTM D785-08 Procedure A	123 R		/
7	Tensile Test	ASTM D638-14	Tensile Strength	8888 psi	/
			Elongation at Break	96 %	
8	Water Absorption	ASTM D570- 98(2010) ^{e1}	0.23 %		/
9	Light Ageing Test-UV Exposure	ASTM G154-12a Cycle1 & ISO 105- A02:1993/Cor.2:2005	Grey scale: 3		/
10	Neutral Salt Spray Test	ASTM B117-11	No visual change		/

*****To be continued*****



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TEST REPORT

No. : GZIN150901282CCM

Date : Sep. 24, 2015

Page: 3 of 12

No.	Test Item	Test Method	Result	Conclusion
11	Major Composition Qualitative Analysis	ASTM E1252- 98(2013) ^{ε1}	Polycarbonate(PC)	/
12	Thermal Conductivity	With reference to ASTM C177-10	0.03306 Btu/(ft · h · °F)	/

*****To be continued*****



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TEST REPORT

No. : GZIN150901282CCM

Date : Sep. 24, 2015

Page: 4 of 12

Test Information:

Sample description: See photo

1. Test Item: Density

Test Method: ASTM D792-13 Method B

Test Condition:

Absolute alcohol, 23 ± 0.5 °C

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

Test Result:

Sample	Test Item	Test Result
1	Density	1.19 g/cm ³

Note: Test specimens were cut from the injection molded sample.

2. Test Item: Flexural Strength

Test Method: ASTM D790-10 Procedure A

Test Condition:

Specimen: 127 mm×12.67 mm×3.24 mm

Testing speed: 1.3 mm/min

Span: 51 mm

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

Test Result:

Sample	Test Item	Test Result
1	Flexural Strength	14181 psi (See note 1)

Note:

1. Flexural strength was the maximum strength obtained over the 5% strain limit.
2. Test specimens were injection molded.

*****To be continued*****



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TEST REPORT

No. : GZIN150901282CCM

Date : Sep. 24, 2015

Page: 5 of 12

3.Test Item: Horizontal Burning

Test Method: UL 94-2013 Rev.3-2015 Section 7

Test Condition:

Specimen: 126 mm×12.6 mm×3.3 mm

Conditioning: 23 ± 2 °C, 50 ± 5 %RH, 48 h

Test Result:

Sample 1

Specimen	1	2	3
Burning distance, mm	/	/	/
Burning time, s	/	/	/
Burning rate, mm/min	0	0	0

Requirements of HB Classification:

- a) Not have a burning rate exceeding 40 mm per minute over a 75 mm span for specimens having a thickness of 3.0 to 13 mm, or
- b) Not have a burning rate exceeding 75 mm per minute over a 75 mm span for specimens having a thickness less than 3.0 mm, or
- c) Cease to burn before the 100 mm reference mark.

Classification: HB

Note:

- 1. The flame extinguished before the 25 mm reference mark.
- 2. Test specimens were injection molded.

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TEST REPORT

No. : GZIN150901282CCM

Date : Sep. 24, 2015

Page: 6 of 12

4.Test Item: Melt Mass Flow Rate

Test Method: ASTM D1238-13 Procedure A

Test Condition:

Drying condition: 120 °C, 4 h

Test condition: 300°C, 1.2kg

Test Result:

Sample	Test Item	Test Result
1	Melt Mass Flow Rate	10.5 g/10min

5.Test Item: Moulding Shrinkage

Test Method: ASTM D955-08(2014)

Test Condition:

Condition: 23 ± 2 °C, 50 ± 5 % RH, 48 h

Mold cavity: 60.96 mm × 61.00 mm × 2.02 mm (Type D2)

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

Test Result:

Sample	Test Item	Test Result	
1	Moulding Shrinkage	Parallel to flow	0.84 %
		Perpendicular to flow	0.70 %

Note: Test specimens were injection molded.

*****To be continued*****



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TEST REPORT

No. : GZIN150901282CCM

Date : Sep. 24, 2015

Page: 7 of 12

6. Test Item: Rockwell Hardness

Test Method: ASTM D785-08 Procedure A

Test Condition:

Specimen thickness: 6.69 mm

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

Test Result:

Sample	Test Item	Test Result
1	Rockwell Hardness	123 R

Note: Test specimens were injection molded.

7. Test Item: Tensile Test

Test Method: ASTM D638-14

Test Condition:

Specimen: Type I

Testing speed: 50 mm/min

Gauge length: 50 mm

Distance between grips: 115 mm

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

Test Result:

Sample	Test Item	Test Result
1	Tensile Strength	8888 psi
	Elongation at Break	96 %

Note: Test specimens were injection molded.

*****To be continued*****



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TEST REPORT

No. : GZIN150901282CCM

Date : Sep. 24, 2015

Page: 8 of 12

8. Test Item: Water Absorption

Test Method: ASTM D570-98(2010)^{e1}

Test Condition:

Specimen: 60 mm×60 mm×1.96 mm

Drying condition: 50±3℃, 24h

Immersion condition: 23±1℃, 24h

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

Test Result:

Sample	Test Item	Test Result
1	Water Absorption	0.23 %

Note:

1. Water Absorption, %=(Mass after immersion-Mass after drying and before immersion)/
Mass after drying and before immersion×100
2. Test specimens were injection molded.

9. Test Item: Light Ageing Test-UV Exposure

Test Method: ASTM G154-12a Cycle1 & ISO 105-A02:1993/Cor.2:2005

Test Condition:

Exposure cycle:

ASTM G154-12a cycle 1

Lamp type: UVA-340

8h UV at (60±3)℃ BPT, 0.89W/(m²•nm)@340nm

4h condensation at (50±3)℃ BPT

Exposure duration: 24h

Test Result:

Sample	Grey scale
1	3

*****To be continued*****



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TEST REPORT

No. : GZIN150901282CCM

Date : Sep. 24, 2015

Page: 9 of 12

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. Test specimens were injection molded.

10. Test Item: Neutral Salt Spray Test

Test Method: ASTM B117-11

Test Condition:

Concentration of solution collected: (5±1)% NaCl(m/m)

Chamber temperature: (35±2)°C

Volume of salt solution collected: (1.0~2.0)ml/(80cm²·h)

pH of collected solution at (23±3)°C: 6.5~7.2

Exposure period: 24h

Test Result:

Sample		Appearance
1	#1	No visual change
	#2	No visual change
	#3	No visual change

Note: Test specimens were injection molded.

11. Test Item: Major Composition Qualitative Analysis

Sample Description: Plastic raw material

Test Method: ASTM E1252-98(2013)^{e1}, analysis was performed by FTIR.

Sample Technique: THF dissolved, cast film

Test Result:

Sample	Major composition
1	Polycarbonate(PC) (FTIR spectrum see Fig.1)

*****To be continued*****



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TEST REPORT

No. : GZIN150901282CCM

Date : Sep. 24, 2015

Page: 10 of 12

12. Test Item: Thermal Conductivity

Test Method: With reference to ASTM C177-10

Test Condition:

- 1) The Thickness of the test : 0.3616 cm
- 2) Mean temperature : 25.02 °C
- 3) Delta T : 14.27 °C
- 4) Temperature gradient : 4020.46 °K/m

Test Result:

Test Item	Test Result
Thermal Conductivity Btu/(ft·h·°F)	0.03306

Note: The test item 12 was carried out by a SGS internal laboratory.

*****To be continued*****



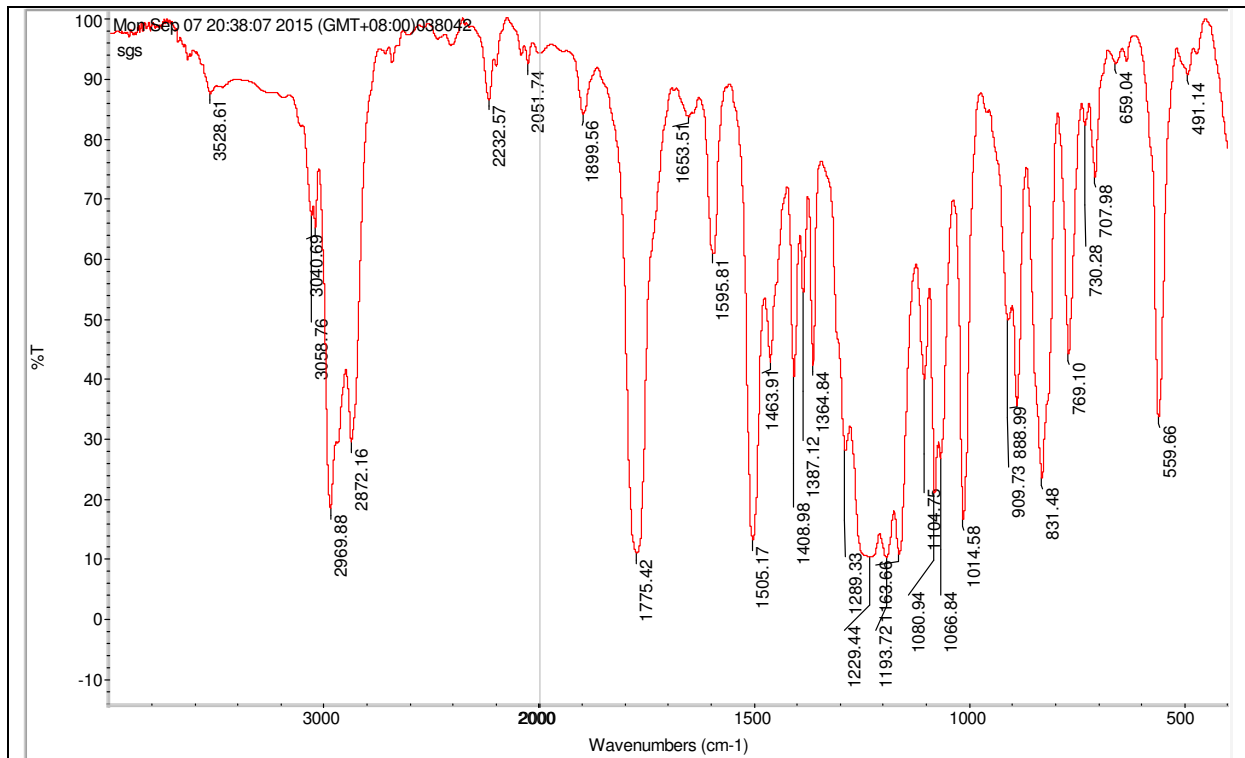
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Fig.1



Statement: Unless otherwise stated, the results shown in this test report refer only to the sample(s) tested.

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TEST REPORT

No. : GZIN150901282CCM

Date : Sep. 24, 2015

Page: 12 of 12

Photo:

<p>Original sample</p>	<p>Reference sample Tested sample Test item 9</p>
<p>Reference sample Tested sample Test item 10</p>	<p>Sample for test item 12</p>

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



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