

# TEST REPORT

**Report No. : A110CS0349**

**Customer : TA YU SCIENCE Co., Ltd.**

**Address : 1F., No. 68, Xinling 1st St., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)**

**Test Lab. : Component Test Lab.**

**Test Item : 191 Flammability of the interior materials for motor vehicle**

**Testing Category : Regulation**

**Product : Interior Materials For Automobiles**

**Model : MAP<sup>®</sup> ; CAN-BUS 498K-1320**

THIS REPORT CONSISTED OF 6 PAGES IN TOTAL WHICH INCLUDING 1 COVER PAGE.  
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The name of the test sample and any relevant documentary data in this report are provided by customers, and they shall ensure the correctness.

The test results in this report deriving from the relevant data via check or testing are effective only to the sample(s) tested.



財團法人 **車輛研究測試中心**  
Automotive Research & Testing Center

50544 彰化縣鹿港鎮鹿工南七路 6 號 Tel:+886-4-7811222 Fax:+886-4-7811777  
No.6, Lugong S. 7th Rd., Lukang Township, Changhua County 50544, Taiwan (R.O.C.)

# Test Report

Report No. : A110CS0349

Test Category : ■Regulation □Non-regulation

Test Item : 191 Flammability of the interior materials for motor vehicle

Page : 1/5

## Product Identification Information :

Product : Interior Materials For Automobiles

Model : MAP® ; CAN-BUS 498K-1320

## Test Item :

- ☐ 191 Flammability of the interior materials for motor vehicle - Paragraph 5  
The inspection methods and standards of vehicles other than vehicles regulated in paragraph 6.  
Type(Series) :  
Variant/Version :
- ☐ 191 Flammability of the interior materials for motor vehicle - Section 6.3  
Test to determine the horizontal burning rate of materials.  
Type(Series) :  
Variant/Version :
- ☒ 191 Flammability of the interior materials for motor vehicle - Section 6.2.6  
Resistance to flame propagation test of electric cable.  
(According to ISO 6722-1:2011, paragraph 5.22)  
Type(Series) : MAP® 車用/軌道 匯流排電纜 CAN-BUS  
Variant/Version : CAN-BUS CABLE
- ☐ 191 Flammability of the interior materials for motor vehicle - Section 6.4  
Test to determine the melting behaviour of materials.  
Type(Series) :  
Variant/Version :
- ☐ 191 Flammability of the interior materials for motor vehicle - Section 6.5  
Test to determine the vertical burning rate of materials.  
Type(Series) :  
Variant/Version :
- ☐ 191 Flammability of the interior materials for motor vehicle - Section 6.6  
Test to determine the capability of materials to repel fuel or lubricant.  
Type(Series) :  
Variant/Version :

Signatory of Laboratory/Issue Date

Chen-Neng Lu 2021.09.28

# Test Report

Report No. : A110CS0349

Test Category : ☒Regulation ☐Non-regulation

Test Item : 191 Flammability of the interior materials for motor vehicle

Page : 2/5

## Test Condition

Temperature and humidity : Under the environmental conditions that specified in test item, if test item doesn't specify , then under normal temperature and humidity.

## Test Standard and Procedure

According to Vehicle Safety Testing Directions (Edition 2021/09/17 ).

## Test Equipment

- ☐Vertical combustion tester (HT-8655MH S/N:248)
- ☒Resistance to flame propagation tester (HT-8655J S/N : 262)
- ☐Melting behaviour tester (YUHUE)
- ☐Capability to repel fuel or lubricant testing device
- ☐Combustion chamber A(HT-8655MV)
- ☐Combustion chamber B(HT-8655MV)
- ☐Temperature/Humidity Test Chamber(A)(TAICHY HB-1728 S/N:1020575)
- ☒Temperature/Humidity Test Chamber(B)(TAICHY HB-1728 S/N:1020576)
- ☐Temperature/Humidity Test Chamber(TAICHY MHK-225NK S/N:1020577)
- ☐Temperature/Humidity Test Chamber(TAICHY Type MHU-408NBDW S/N : 960431)

## Initial Condition of Test Specimens and Test Result

1. 191 Flammability of the interior materials for motor vehicle - Paragraph 5  
The inspection methods and standards of vehicles other than vehicles regulated in paragraph 6.  

(Not Tested)
2. 191 Flammability of the interior materials for motor vehicle - Section 6.3  
Test to determine the horizontal burning rate of materials.  

(Not Tested)

# Test Report

Report No. : A110CS0349

Test Category : ☒Regulation ☐Non-regulation

Test Item : 191 Flammability of the interior materials for motor vehicle

Page : 3/5

## 3. 191 Flammability of the interior materials for motor vehicle - Section 6.2.6

Resistance to flame propagation test of electric cable.

(According to ISO 6722-1:2011, paragraph 5.22)

### 3.1 Initial Condition of Test Specimens

Series No.	Variant/Version	Length (mm)	Conduct size (mm <sup>2</sup> )
1	CAN-BUS CABLE	700	0.986
2	CAN-BUS CABLE	700	0.986
3	CAN-BUS CABLE	700	0.986
4	CAN-BUS CABLE	700	0.986
5	CAN-BUS CABLE	700	0.986

### 3.2 Test Result

The test results of burnt distance, burnt time are shown as the following table.

Series No.	Variant/Version	Burnt distance (mm)	Burnt time(sec)	Result
1	CAN-BUS CABLE	20	0	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Not pass
2	CAN-BUS CABLE	11	0	
3	CAN-BUS CABLE	17	0	
4	CAN-BUS CABLE	20	0	
5	CAN-BUS CABLE	19	0	

Note: The flame propagation test result of any material shall extinguish within 70 seconds, and the insulator on the surface of the test specimen shall be remain at least 50 mm from the top not be burned, it is recognized to pass the test.

3.3. The test results of sample burnt condition are showed on page 5-6.

## 4. 191 Flammability of the interior materials for motor vehicle - Section 6.4

Test to determine the melting behaviour of materials.

(Not Tested)

## 5. 191 Flammability of the interior materials for motor vehicle - Section 6.5

Test to determine the vertical burning rate of materials.

(Not Tested)

# Test Report

Report No. : A110CS0349

Test Category : ☒Regulation ☐Non-regulation

Test Item : 191 Flammability of the interior materials for motor vehicle

Page : 4/5

## 6. 191 Flammability of the interior materials for motor vehicle -Section 6.6

Test to determine the capability of materials to repel fuel or lubricant.

(Not Tested)

### Note

#### 1. Test Result :

☒Pass ☐Not pass ; 191 Flammability of the interior materials for motor vehicle.

2. The original test report in the Chinese language shall prevail.

3. Testing date : Sep. 28, 2021

# Test Report

Report No. : A110CS0349

Test Category : ☒Regulation ☐Non-regulation

Test Item : 191 Flammability of the interior materials for motor vehicle

Page : 5/5



The sample condition before burnt



The sample condition after burnt