

HUANGSHAN MEAO COMPOSITE MATERIALS CO., LTD  
PLOT A, PHASE 2, ECONOMIC DEVELOPMENT ZONE, SHEXIAN, HUANGSHAN, ANHUI, CHINA(MAINLAND)

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

Sample Description : TEFLON HIGH TEMPERATURE FOOD MAT  
SGS Ref No. : CAN17-122089  
Style / Item No. : 1013A, 1020C, 1025, 1035, 1090, 1020-1, 1020-2, 1020-3, 1020-4,  
1020-5, 1020-6, 1020-7  
Client Reference Information : MATERIAL NO.: 13S, 20S, 25S, 35S  
Manufacture : HUANGSHAN MEAO COMPOSITE MATERIALS CO., LTD  
Country of Destination : USA  
Sample Receiving Date : Jun. 27, 2017  
Test Performing Date : Jun. 27, 2017 to Jul. 3, 2017  
Test Performed : Selected test(s) as requested by applicant  
Test Result(s) : For further details, please refer to the following page(s)



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Result Summary :

Test Requested	Conclusion
German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 & 31 with amendments, European Commission Regulation (EU) No 10/2011 with amendments and BfR recommendation – Overall migration	PASS
German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 & 31 with amendments–Colour Release	PASS
German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 & 31 with amendments–Sensorial examination odour and taste test	PASS
German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 & 31 with amendments, European Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments and BfR recommendation–Specific migration of Perfluorooctanoic acid (PFOA) and Perfluorooctane Sulfonates(PFOS)	PASS
German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 & 31 with amendments, European Commission Regulation (EU) No 10/2011 with amendments and BfR recommendation–Specific Migration of Heavy Metal	PASS
German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 & 31 with amendments, European Commission Regulation (EU) No 10/2011 with amendments and BfR recommendation–Lead and Cadmium	PASS
Polycyclic Aromatic Hydrocarbons (PAHs)	PASS

Signed for and on behalf of  
SGS-CSTC Co., Ltd. Xiamen Branch



Sharky Xia  
Approved Signatory



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SGS-CSTC Standards Technical Services Co., Ltd.  
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Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description	Material (claimed by the client)
SN1	CAN17-122089.001	Brown surfaced mat	Fabric+PTFE coating

**German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 & 31 with amendments, European Commission Regulation (EU) No 10/2011 with amendments and BfR recommendation – Overall migration**

Test Method : With reference to Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex III and Annex V for selection of condition and EN 1186-1:2002 for selection of test methods;  
or EN 1186-3:2002 aqueous food simulants by total immersion method;  
or EN 1186-14:2002 substitute test

<u>Simulant Used</u>	<u>Time</u>	<u>Temperature</u>	<u>Max. Permissible Limit</u>	<u>Result of 001 Overall Migration</u>	<u>Comment</u>
3% Acetic Acid (W/V) Aqueous Solution	4.0hr(s)	100°C	10mg/dm <sup>2</sup>	<3.0mg/dm <sup>2</sup>	PASS
10% Ethanol (V/V) Aqueous Solution	4.0hr(s)	100°C	10mg/dm <sup>2</sup>	<3.0mg/dm <sup>2</sup>	PASS
95% Ethanol	6.0hr(s)	60°C	10mg/dm <sup>2</sup>	<3.0mg/dm <sup>2</sup>	PASS
Isooctane	4.0hr(s)	60°C	10mg/dm <sup>2</sup>	<3.0mg/dm <sup>2</sup>	PASS

Notes :

1. mg/kg = milligram per kilogram of foodstuff in contact with  
mg/dm<sup>2</sup> = milligram per square decimeter
2. °C = degree Celsius
3. The test data is obtained by considering the articles intended for repeated use as per described in Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex V. Report the 3rd extractive result.

**German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 & 31 with amendments–Colour Release**

Test Method : With reference to Kunststoffe im Lebensmittelverkehr, Part B II IX.

<u>Test Item(s)</u>	<u>Limit</u>	<u>001</u>
Visible Color Migration in 2% Acetic Acid (W/V)	★	Negative
<b>Comment</b>		<b>PASS</b>
Visible Color Migration in Coconut Oil	★	Negative



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Test Item(s)	Limit	001
Comment		PASS

Notes :

- 1.★ = No color release observed
- 2.Negative = No color release observed, Positive = Color release observed.

**German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 & 31 with amendments–Sensorial examination odour and taste test**

Test Method : With reference to DIN10955:2004,direct contact method.  
No.of panelist:6

Test Item(s)	Limit	001
Test media	-	Distilled water
Test Temperature (°C)	-	100
Test time (hr)	-	4
Sensorial examination odour (Point scale)	2.5	1.0
Sensorial examination taste (Point scale)	2.5	1.0
Comment		PASS

Notes :

- Intensity scale (rounded at 0.5):
- 0 – no perceptible difference
  - 1 – just perceptible difference
  - 2 – slight difference
  - 3 – marked difference
  - 4 – strong difference

**German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 & 31 with amendments, European Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments and BfR recommendation–Specific migration of Perfluorooctanoic acid (PFOA) and Perfluorooctane Sulfonates(PFOS)**

Test Method : With reference to Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex III and Annex V for selection of condition and EN 13130-1:2004 for selection of test method, analysis was performed by LC-MS.

**Sample 001**

Simulant Used : 3% Acetic Acid (W/V) Aqueous Solution  
Test Condition : 100°C 4.0hr(s)



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<u>Test Item(s)</u>	<u>Max. Permissible Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>Test result</u>
Migration times	-	-	-	1st
Area/Volume	-	dm <sup>2</sup> /kg	-	6.0
Specific migration of PFOA	0.005	mg/dm <sup>2</sup>	0.002	ND
Specific migration of PFOS	0.01	mg/kg	0.01	ND
<b>Comment</b>				<b>PASS</b>

Notes :

1. mg/dm<sup>2</sup> = milligram per square decimeter
2. mg/kg = milligram per kilogram of foodstuff in contact with
3. °C = degree Celsius
4. MDL = Method Detection Limit
5. ND = Not Detected (less than MDL)

**German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 & 31 with amendments, European Commission Regulation (EU) No 10/2011 with amendments and BfR recommendation—Specific Migration of Heavy Metal**

Test Method : With reference to Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex III and Annex V for selection of condition and EN13130-1:2004 for selection of test method, analysis was performed by ICP-OES.

**Sample 001**

Simulant Used : 3% Acetic Acid (W/V) Aqueous Solution  
 Test Condition : 100°C 4.0hr(s)

<u>Test Item(s)</u>	<u>Max. Permissible Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>Test result</u>
Migration times	-	-	-	3rd
Area/Volume	-	dm <sup>2</sup> /kg	-	6.0
Barium	1	mg/kg	0.25	ND
Cobalt	0.05	mg/kg	0.01	ND
Copper	5	mg/kg	0.25	ND
Iron	48	mg/kg	0.25	ND
Lithium	0.6	mg/kg	0.5	ND
Manganese	0.6	mg/kg	0.25	ND
Zinc	25	mg/kg	0.5	ND
<b>Comment</b>				<b>PASS</b>



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Notes :

1. mg/kg = milligram per kilogram of foodstuff in contact with
2. °C = degree Celsius
3. MDL=Method Detection Limit
4. ND= Not Detected(less than MDL)

**German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 & 31 with amendments, European Commission Regulation (EU) No 10/2011 with amendments and BfR recommendation—Lead and Cadmium**

Test Method : Microwave digestion (GZTC CHEM-TOP-004-01) , analysis was performed by ICP-OES.

Test Item(s)	Limit	Unit	MDL	001
Cadmium (Cd)	★	mg/kg	2	ND
<b>Comment</b>				<b>PASS</b>
Lead (Pb)	★	mg/kg	2	ND
<b>Comment</b>				<b>PASS</b>

Notes :

1. mg/kg = milligram per kilogram of sample
2. MDL=Method Detection Limit
3. ND= Not Detected(less than MDL)
4. ★= Absent

**Polycyclic Aromatic Hydrocarbons (PAHs)**

Test Method : With reference to AfPS GS 2014:01 PAK, analysis was performed by GC-MS.

Test Item(s)	CAS NO.	Limit	Unit	MDL	001
Sum of 18 PAHs	-	1.0	mg/kg	-	ND
Sum of 7 PAHs Acenaphthylene, Acenaphthene, Fluorene, Phenanthrene, Pyrene, Anthracene, Fluoranthene	-	1.0	mg/kg	-	ND
Naphthalene(NAP)	91-20-3	1.0	mg/kg	0.1	ND
Acenaphthylene(ANY)	208-96-8	-	mg/kg	0.1	ND
Acenaphthene(ANA)	83-32-9	-	mg/kg	0.1	ND
Fluorene(FLU)	86-73-7	-	mg/kg	0.1	ND
Phenanthrene(PHE)	85-01-8	-	mg/kg	0.1	ND
Anthracene(ANT)	120-12-7	-	mg/kg	0.1	ND
Fluoranthene(FLT)	206-44-0	-	mg/kg	0.1	ND
Pyrene(PYR)	129-00-0	-	mg/kg	0.1	ND



Test Item(s)	CAS NO.	Limit	Unit	MDL	001
Benzo(a)anthracene(BaA)	56-55-3	0.2	mg/kg	0.1	ND
Chrysene(CHR)	218-01-9	0.2	mg/kg	0.1	ND
Benzo(b)fluoranthene(BbF)	205-99-2	0.2	mg/kg	0.1	ND
Benzo(j)fluoranthene(BjF)	205-82-3	0.2	mg/kg	0.1	ND
Benzo(k)fluoranthene(BkF)	207-08-9	0.2	mg/kg	0.1	ND
Benzo(a)pyrene(BaP)	50-32-8	0.2	mg/kg	0.1	ND
Benzo(e)pyrene(BeP)	192-97-2	0.2	mg/kg	0.1	ND
Indeno(1,2,3-c,d)pyrene(IPY)	193-39-5	0.2	mg/kg	0.1	ND
Dibenzo(a,h)anthracene(DBA)	53-70-3	0.2	mg/kg	0.1	ND
Benzo(g,h,i)perylene(BPE)	191-24-2	0.2	mg/kg	0.1	ND

Notes :

1. mg/kg = milligram per kilogram of sample
2. MDL=Method Detection Limit
3. ND= Not Detected(less than MDL)

Remark : This test was subcontracted to SGS-CSTC Co., Ltd. Guangzhou Branch.

Sample photo(s):



CAN17-122089.001

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\*\*\*End of Report\*\*\*

