

Test Report No.: 68.431.21.10066.07C

Dated: 2021-03-23



Applicant : INCREDIBLE HUSK SDN. BHD.
(Company No. 202001009776 - 1366096-M) A-30-02,
Tower A, Level 30 Pinnacle @ PJ, Jalan Utara C, 46200
Petaling Jaya, Selangor, MALAYSIA

Sample Description : Rice Husks Fiber products, Brown color, surface is rough

Supplier : Husk's Renewable Material Technology Co., LTD

Manufacturer : Husk's Renewable Material Technology Co., LTD

Country of Origin : China

Test Sample Receipt Date, Location : 2021-03-09, Xiamen

Test Period, Location : From 2021-03-10 to 2021-03-17, Shenzhen/ Hongkong

Test Result(s) : Refer to Section 3

Purpose Of Examination / Conclusion:

Test Requested:	As specified by client, to test per the selected requirement(s) for the tested item(s) as stated in the German Food & Feed Acts LFGB (§ 30 & 31) and Regulation (EC) No.1935/2004
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No.	Test Item(s)	Conclusion
1	Specific Migration of PAA	Pass
2	Specific Migration of PAAs	Pass
3	Specific Migration of PAHs	Pass
4	Specific Migration of Formaldehyde	Pass
5	Color Fastness for Paper	Pass
6	Sensory Test Test for compliance with German Food and Feed Acts LFGB Section 31 and Regulation (EC) No. 1935/2004 Article 3(1)	Pass
7	Pentachlorophenol (PCP), Sum of Tetrachlorophenols (TeCP), and Trichlorophenols(TriCP) Content Test	Pass*

Laboratory:
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Remarks:

- (1) The results relate only to the items tested.
- (2) Samples are tested as received.
- (3) The test item and samples were specified by the client
- (4) "*" the conclusion was drawn according to the client's specification
- (5) All results are transferred from previous report 68.431.21.10066.07A issued on 2021-03-19.
- (6) "Pass" means the measured result is within a limit, even when extended by expanded uncertainty. "Fail" means the measured result is beyond a limit, even when extended by expanded uncertainty. "Inconclusive" means the measured result can be within or beyond a limit when extended by expanded uncertainty. The confidence level of the expanded uncertainty for "Pass", "Fail" and "Inconclusive" is 95%.

TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch
TÜV SÜD Group

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1. Description of the Test Sample:

Sample Description	Rice Husks Fiber products, Brown color, surface is rough
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2. List of Materials as identified by the Laboratory:

T. No.	Sample No.	Colour and Description	Photograph
T1	001	Brown composite material cup (interior)	
T2	002	Brown composite material cup	



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3. Test Result

3.1 Specific Migration of PAA

Test method: With reference to EN 1186-1: 2002.follow by UV spectrophotometer

Test Conditions: 3% Acetic Acid: 70 °C for 2 Hours

TEST ITEM	RESULT [mg/kg foodstuff]			^ MAXIMUM PERMISSIBLE LIMIT [mg/kg]
	SAMPLE 001 1 st Migration	SAMPLE 001 2 nd Migration	SAMPLE 001 3 rd Migration	
Primary Aromatic Amine	<0.01	<0.01	<0.01	<0.01
Conclusion	Pass	Pass	Pass	-

Note 1. "°C" denotes degree Celsius

2. "<" denotes less than

3. "mg/kg" denotes milligram per kilogram

4. "^" denotes for Repeated use materials and articles, Compliance shall be verified on the basis of the level of the migration found in the third test and on the basis of the stability of the material or article from the first to the third migration test according to Commission Regulation (EU) 2020/1245.



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3.2 Specific Migration of PAAs

Test method: With reference to EN 1186-1: 2002.follow by LC/MS/MS

Test Conditions: 3% Acetic Acid: 70 °C for 2 Hours

TEST ITEM	RESULT [mg/kg foodstuff]			^ MAXIMUM PERMISSIBLE LIMIT [mg/kg]
	SAMPLE 001 1 st Migration	SAMPLE 001 2 nd Migration	SAMPLE 001 3 rd Migration	
4-aminobiphenyl	<0.002	<0.002	<0.002	<0.002
Benzidine	<0.002	<0.002	<0.002	<0.002
4-chloro-o-toluidine	<0.002	<0.002	<0.002	<0.002
2-naphthylamine	<0.002	<0.002	<0.002	<0.002
o-aminoazotoluene	<0.002	<0.002	<0.002	<0.002
5-nitro-o-toluidine	<0.002	<0.002	<0.002	<0.002
4-chloroaniline	<0.002	<0.002	<0.002	<0.002
2,4-diaminoanisole	<0.002	<0.002	<0.002	<0.002
4,4'-diaminodiphenylmethane	<0.002	<0.002	<0.002	<0.002
3,3'-dichlorobenzidine	<0.002	<0.002	<0.002	<0.002
3,3'-dimethoxybenzidine	<0.002	<0.002	<0.002	<0.002
3,3'-dimethylbenzidine	<0.002	<0.002	<0.002	<0.002
4,4'-methylenedi-o-toluidine	<0.002	<0.002	<0.002	<0.002
p-cresidine	<0.002	<0.002	<0.002	<0.002
4,4'-methylene-bis-(2-chloro-aniline)	<0.002	<0.002	<0.002	<0.002
4,4'-oxydianiline	<0.002	<0.002	<0.002	<0.002
4,4'-thiodianiline	<0.002	<0.002	<0.002	<0.002
o-toluidine	<0.002	<0.002	<0.002	<0.002
2,4-toluenediamine	<0.002	<0.002	<0.002	<0.002
2,4,5-trimethylaniline	<0.002	<0.002	<0.002	<0.002
2-methoxyaniline	<0.002	<0.002	<0.002	<0.002
4-aminoazobenzene	<0.002	<0.002	<0.002	<0.002
Aniline (ANL)	<0.002	<0.002	<0.002	<0.002
2,4-Dimethylaniline (2,4-DMA)	<0.002	<0.002	<0.002	<0.002
2,6-Dimethylaniline (2,6-DMA)	<0.002	<0.002	<0.002	<0.002
m-Phenylenediamine (m-PDA)	<0.002	<0.002	<0.002	<0.002
p-Phenylenediamine (p-PDA)	<0.002	<0.002	<0.002	<0.002
2,6-Toluenediamine (2,6-TDA)	<0.002	<0.002	<0.002	<0.002
1,5-Diaminenaphthalene (1,5-DAN)	<0.002	<0.002	<0.002	<0.002
Sum of 29 PAAs	<0.002	<0.002	<0.002	<0.01
Conclusion	Pass	Pass	Pass	-

Note 1. "°C" denotes degree Celsius

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3.3 Specific Migration of PAHs

Test method: Organic solvent extraction and analyzed by Gas Chromatography and Mass Spectrometry (GC-MS). [Reporting limit:<0.01mg/kg]

Test Conditions: Isooctane: 40 °C for 0.5 Hours (Converted)

TEST ITEM	RESULTS [mg/kg foodstuff]			^ MAXIMUM PERMISSIBLE LIMIT [mg/kg]
	SAMPLE 001 1 st Migration	SAMPLE 001 2 nd Migration	SAMPLE 001 3 rd Migration	
Naphthalene	<0.01	<0.01	<0.01	<0.01
Acenaphthylene	<0.01	<0.01	<0.01	<0.01
Acenaphthene	<0.01	<0.01	<0.01	<0.01
Fluorene	<0.01	<0.01	<0.01	<0.01
Phenanthrene	<0.01	<0.01	<0.01	<0.01
Anthracene	<0.01	<0.01	<0.01	<0.01
Fluoranthene	<0.01	<0.01	<0.01	<0.01
Pyrene	<0.01	<0.01	<0.01	<0.01
Benzo(a)anthracene	<0.01	<0.01	<0.01	<0.01
Chrysene	<0.01	<0.01	<0.01	<0.01
Benzo(b)fluoranthene	<0.01	<0.01	<0.01	<0.01
benzo(k)fluoranthene	<0.01	<0.01	<0.01	<0.01
benzo(a)pyrene	<0.01	<0.01	<0.01	<0.01
benzo(ghi)perylene	<0.01	<0.01	<0.01	<0.01
dibenzo(a,h)anthracene	<0.01	<0.01	<0.01	<0.01
indeno(123-cd)pyrene	<0.01	<0.01	<0.01	<0.01
Benzo(j)fluoranthene	<0.01	<0.01	<0.01	<0.01
Benzo(e)pyrene	<0.01	<0.01	<0.01	<0.01
Sum of PAHs	<0.01	<0.01	<0.01	<0.01
Conclusion	Pass	Pass	Pass	-

Note:

1. "mg/kg" denotes milligram per kilogram
2. "<" denotes less than
3. "^" denotes for Repeated use materials and articles, Compliance shall be verified on the basis of the level of the migration found in the third test and on the basis of the stability of the material or article from the first to the third migration test according to Commission Regulation (EU) 2020/1245.

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3.4 Specific Migration of Formaldehyde

Test method: As specified in Regulation (EU) No. 10/2011 ANNEX III and V, and followed by Ultraviolet-visible spectroscopy (UV-Vis).

Test Conditions: 3% Acetic Acid: 70 °C for 2 Hours

TEST ITEM	RESULT [mg/kg]			^ MAXIMUM PERMISSIBLE LIMIT [mg/kg]
	SAMPLE 001 1 st Migration	SAMPLE 001 2 nd Migration	SAMPLE 001 3 rd Migration	
Formaldehyde	<0.3	<0.3	<0.3	15
Conclusion	Pass	Pass	Pass	-

Note 1. "°C" denotes degree Celsius

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3. "mg/kg" denotes milligram per kilogram

4. "^" denotes for Repeated use materials and articles, Compliance shall be verified on the basis of the level of the migration found in the third test and on the basis of the stability of the material or article from the first to the third migration test according to Commission Regulation (EU) 2020/1245.

3.5 Color Fastness for Paper

Test method: with reference to EN 646:2018.

SIMULANT USED	TEST CONDITIONS	RESULT [Grade]	REQUIREMENT [Grade]
		SAMPLE 001	
3% Acetic Acid-//Food contact side	23±2°C for 24 Hours	5	5
Alkaline salt solution - //Food contact side	23±2°C for 24 Hours	5	
Distilled Water-//Food contact side	23±2°C for 24 Hours	5	
Olive Oil-//Food contact side	120±3°C for 0.5 Hour	5	
Distilled Water-//Food contact side	90±3°C for 0.5 Hour	5	
Conclusion		Pass	-

Note 1. "°C" denotes degree Celsius

2. Grade 5 is indicate no staining and Grade 1 is the most serious staining

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3.6 Sensory Test

Test for compliance with German Food and Feed Acts LFGB Section 31 and Regulation (EC) No. 1935/2004 Article 3(1)

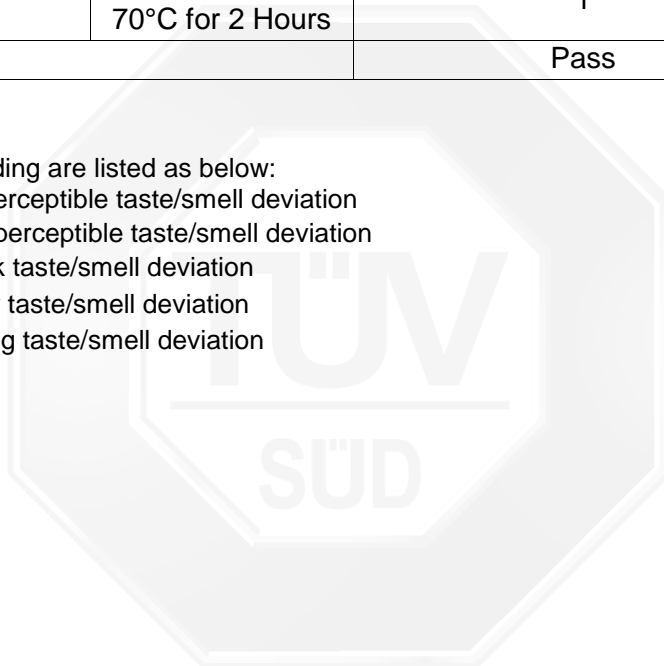
Test method: With reference to DIN 10955.

The submitted sample was treated with below test conditions. After this treatment, treated food simulatant was examined by panels with regard to any divergence in smell and taste.

Test Item	Test Conditions	Grade Results	MAXIMUM PERMISSIBLE LIMIT Level
		Sample 001	
Transfer of smell	Distilled water: 70°C for 2 Hours	1	<2.5
Transfer of taste	Distilled water: 70°C for 2 Hours	1	<2.5
Conclusion		Pass	-

Note:

- Explanation for grading are listed as below:
 - Grade 0 : No perceptible taste/smell deviation
 - Grade 1 : Just perceptible taste/smell deviation
 - Grade 2 : Weak taste/smell deviation
 - Grade 3 : Clear taste/smell deviation
 - Grade 4 : Strong taste/smell deviation





3.7 Pentachlorophenol (PCP), Sum of Tetrachlorophenols (TeCP), and Trichlorophenols(TriCP) Content Test

Test with reference to EN ISO 17070:2015, analysis was performed by GC-ECD/GC-MSD
 [Reporting Limit = 0.05 mg/kg]

Items	CAS No.	Results [mg/kg]	Client's specification [mg/kg]
		SAMPLE 002	
2,3,5,6-Tetrachlorophenol	935-95-5	N. D	-
2,3,4,6-Tetrachlorophenol	58-90-2	N. D	-
2,3,4,5-Tetrachlorophenol	4901-51-3	N. D	-
Sum of Tetrachlorophenol (TeCP)	-	N. D	N. D
2,3,4-Trichlorphenol	15950-66-0	N. D	-
2,3,5-Trichlorphenol	933-78-8	N. D	-
2,3,6-Trichlorphenol	933-75-5	N. D	-
2,4,5-Trichlorphenol	95-95-4	N. D	-
2,4,6-Trichlorphenol	88-06-2	N. D	-
3,4,5-Trichlorphenol	609-19-8	N. D	-
Sum of Trichlorophenol (TriCP)	-	N. D	N. D
PCP(Pentachlorophenol)	87-86-5	<0.05	0.15
Conclusion	-	Pass	-

- Note 1. "<" denotes less than
 2. "mg/kg" denotes milligram per kilogram
 3. "N. D" = Not detected (< Reporting Limit)

-- END OF TEST REPORT--

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