



中国认可  
检测  
TESTING  
CNAS L0599

Test Report

NO: SHAHG2215098301

Date: October 31, 2022. Page 1 of 6

Customer Name: Shandong Ruian Biotechnology Co., Ltd  
Customer Address: New Material Park, Huji Town, Jin xiang County, Ji ning City, Shandong Province

Sample Name: PBAT Polybutylene Adipate Terephthalate

The above samples and information are provided by the customer.

SGS job number: TJHL2210008256CW-TJ.  
Sample receive date: October 24, 2022.  
Testing cycle: October 24, 2022-October 28, 2022.  
Testing requirement: Tested according to customer request.  
Test Method: Please see the next page  
Test result: Please see the next page



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Lucia Liu刘瑾  
批准签署人

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SHAHG2215098301



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Summary of test results:

Testing requirements	Instructions
GB 4806.6-2016- Migration of terephthalic acid	Conformity
GB 4806.6-2016- Migration of 1, 4-butanediol	Conformity



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Test results

Description of test samples:

Sample No.	SGS Sample No.	Description	Material (Provided by customer)
AN1	SHA22-150983.001	White Plastic Sheet	PBAT Polybutylene Adipate Terephthalate

- Remarks:
- (1) mg/kg = mg per kilogram
  - (2) % = mass percentage
  - (3) ° C = ° C
  - (4) RL = reporting limit
  - (5) ND = not detected (< RL)
  - (6) < = less than

GB 4806.6-2016- Migration of terephthalic acid

Test Method: GB31604.21-2016  
 Analog liquid: 4% Acetic acid (V/V)  
 Migration test condition: 70°C 2 hr(s)

Test item	Limit value	Units	RL	001
Number of extractions	-	-	-	1st
Area/volume	-	dm <sup>2</sup> /kg	-	6.0
Amount of terephthalic acid migration	7.5	mg/kg	1.0	ND

Instructions.

Analog liquid: 10% Ethanol (V/V)  
 Migration test condition: 70°C 2 hr(s)

Test item	Limit value	Units	RL	001
Number of extractions	-	-	-	1st
Area/volume	-	dm <sup>2</sup> /kg	-	6.0
Amount of terephthalic acid migration	7.5	mg/kg	1.0	ND

Instruction:

Analog liquid: 50% Ethanol (V/V)  
 Migration test condition: 70°C 2 hr(s)



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Test item	Limit value	Units	RL	001
Number of extractions	-	-	-	1st
Area/volume	-	dm <sup>2</sup> /kg	-	6.0
Amount of terephthalic acid migration	7.5	mg/kg	1.0	ND

**Instruction:**

**Conformity**

Analog liquid: Olive Oil  
Migration test codition: 70°C 2 hr(s)

Test item	Limit value	Units	RL	001
Number of extractions	-	-	-	1st
Area/volume	-	dm <sup>2</sup> /kg	-	6.0
Amount of terephthalic acid migration	7.5	mg/kg	1.0	ND

**Instruction:**

**Conformity**

Notes: (1) Test conditions and simulation fluid shall be specified by the customer

**GB 4806.6-2016- Migration of 1, 4-butanediol**

Test Method: GB 31604.51-2021  
Analog liquid: 4% Acetic acid (V/V)  
Migration test codition: 70°C 2 hr(s)

Test item	Limit value	Units	RL	001
Number of extractions	-	-	-	1st
Area/volume	-	dm <sup>2</sup> /kg	-	6.0
Migration of 1, 4-butanediol	5	mg/kg	1.0	ND

**Instructions.**

**Conformity**

Analog liquid: 10% Ethanol (V/V)  
Migration test codition: 70°C 2 hr(s)

Test item	Limit value	Units	RL	001
Number of extractions	-	-	-	1st
Area/volume	-	dm <sup>2</sup> /kg	-	6.0
Migration of 1, 4-butanediol	5	mg/kg	1.0	ND

**Instructions.**

**Conformity**

Analog liquid: 50% Ethanol (V/V)  
Migration test codition: 70°C 2 hr(s)



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Test item	Limit value	Units	RL	001
Number of extractions	-	-	-	1st
Area/volume	-	dm <sup>2</sup> /kg	-	6.0
Migration of 1, 4-butanediol	5	mg/kg	1.0	ND

**Instructions.**
**Conformity**

 Analog liquid: 95% Ethanol (V/V)  
 Migration test codition: 60°C 2 hr(s)

Test item	Limit value	Units	RL	001
Number of extractions	-	-	-	1st
Area/volume	-	dm <sup>2</sup> /kg	-	6.0
Migration of 1, 4-butanediol	5	mg/kg	1.0	ND

**Instructions.**
**Conformity**

 Analog liquid: Olive Oil  
 Migration test codition: 70°C 2 hr(s)

Test item	Limit value	Units	RL	001
Number of extractions	-	-	-	1st
Area/volume	-	dm <sup>2</sup> /kg	-	6.0
Migration of 1, 4-butanediol	5	mg/kg	1.0	ND

**Instructions.**
**Conformity**

(1) Test conditions and simulation fluid shall be specified by the customer.

Compliance determination is made using the binary determination rule of simple acceptance (w=0), as referred to ILA C-G8:09/2019, unless otherwise stated.

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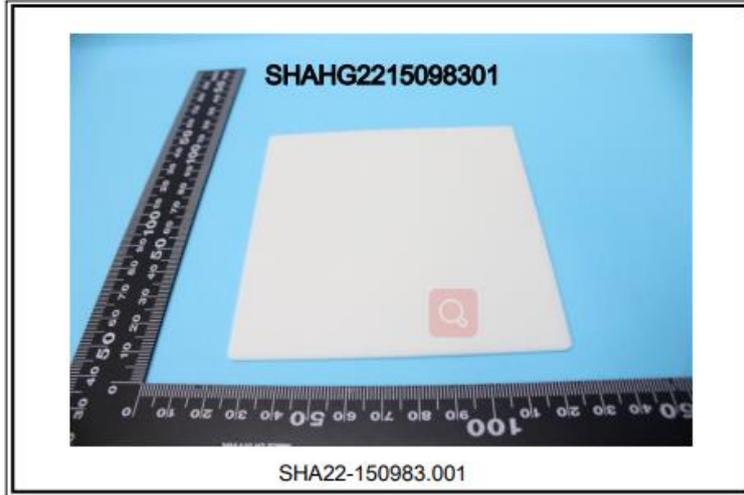
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Sample picture:



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

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