



## Test Report

No.T32020230828SC-01

Date: MAY 06, 2020

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TYCOPLAS SDN BHD

LOT 2222, JALAN HOSPITAL, SUNGAI BULOH INDUSTRIAL AREA, 47000 SUNGAI BULOH,  
SELANGOR DARUL EHSAN, MALAYSIA

This report supersedes all previous documents bearing the test report number T32020230828SC.

The following samples were submitted and identified on behalf of the client as:

### POLYPROPYLENE TABLEWARE

SGS Case No. : CA320202313289  
Manufacturer : TYCOPLAS SDN BHD  
Country of Origin : MALAYSIA  
Sample Receiving Date : MAR 11, 2020  
Test Performing Date : MAR 11 - 27, 2020

Test Requested		Conclusion
1.	Bisphenol A (BPA) Content (Selected part as specified by client)	SEE RESULT
2.	European Commission Regulation (EU) No 10/2011 and its amendments (Selected part as specified by client)	--
	a) Plastic – Overall Migration	PASS
	b) Plastic – Specific Migration of Heavy Metals	PASS

\*\*\*\*\* FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S) \*\*\*\*\*

Signed for and on behalf of  
SGS Hong Kong Ltd.

Cheung Cheuk Fung, Henry  
Assistant Operations Manager

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Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

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### Test Results:

#### 1. Bisphenol A (BPA) Content

Method: Solvent extraction

Analysis was performed by High Performance Liquid Chromatography – Tandem Mass Spectrometer (HPLC-MS/MS)

Specimen Description	MDL (mg/kg)	Result(s) (mg/kg)
1. Semi-Transparent Plastic (Container, Lid)	0.1	ND

- Note:
- mg/kg = milligram per kilogram
  - ND = Not Detected (lower than MDL)
  - MDL = Method Detection Limit

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**2. European Commission Regulation (EU) No 10/2011 and its amendments**

a) Plastic – Overall Migration

Method : With reference to EN 1186-1:2002 for selection of conditions and test methods (1<sup>st</sup> migration);  
 EN 1186-9:2002 aqueous food simulants by article filling method;  
 EN 1186-2/13:2002 olive oil by total immersion method;

Simulant Used	Test Condition	Result (mg/dm <sup>2</sup> )	Reporting Limit (mg/dm <sup>2</sup> )	Permissible Limit (mg/dm <sup>2</sup> )
		1		
3% Acetic Acid (W/V) Aqueous Solution	2 hours at 100°C	ND	3.0	10
10% Ethanol (V/V) Aqueous Solution	2 hours at 100°C	ND	3.0	10
Rectified Olive Oil	1 hour at 121°C	ND	3.0	10
<b>Comment</b>	--	PASS	--	--

Sample Description :

1. Semi-Transparent Plastic (Container, Lid)

- Note : 1. mg/dm<sup>2</sup> = milligram per square decimeter  
 2. °C = degree Celsius  
 3. ND = Not Detected

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## b) Plastic – Specific Migration of Heavy Metals

Method: Sample preparation in 3% acetic acid (w/v) in aqueous solution at 100°C, 0.5 hour followed by 40°C, 10 days with reference to EN 13130-1:2004; followed by analysis using Inductively Coupled Argon Plasma Spectrometry (ICP) and Inductively coupled plasma-mass spectrometry (ICP-MS). (1<sup>st</sup> migration).

Test Item	Result (mg/kg)	Reporting Limit (mg/kg)	Permissible Limit (mg/kg)
	1		
Specific Migration of Barium	ND	0.25	1
Specific Migration of Cobalt	ND	0.03	0.05
Specific Migration of Copper	ND	0.25	5
Specific Migration of Iron	ND	0.25	48
Specific Migration of Lithium	ND	0.5	0.6
Specific Migration of Manganese	ND	0.25	0.6
Specific Migration of Nickel	ND	0.01	0.02
Specific Migration of Zinc	ND	0.5	5
Specific Migration of Aluminum	ND	0.1	1
<b>Comment</b>	PASS	--	--

Sample Description :

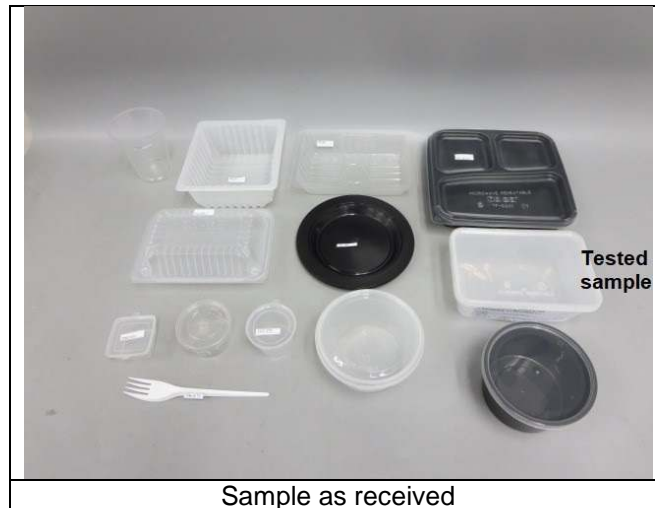
1. Semi-Transparent Plastic (Container, Lid)

Note : 1. mg/kg = milligram per kilogram of foodstuff in contact with

2. °C = degree Celsius

3. ND = Not Detected

**Photo Appendix**



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

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