

Roediger Agencies cc

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Test report ref:

1804ZIB1/1-3

Sample

Sample description	rPET thermoform tray
Laboratory sample code	1804ZIB1/1-3

Test methods

BS EN 1186-3 2002; BS EN 1186-5 2002; BS EN 1186-7 2002; BS EN 1186-9 2002; ASTM D6042 2009; ASTM 6953 2011; ASTM D6042-09. In-house 14/2014 & 17/2014

Client

Name	Zibo Containers (Pty) Ltd.
Address	Att: Anre Claassen PO Box 215 7581 BLACKHEATH

Order no.	93459	Order date	16 April 2024
Sample received	18 April 2024	Date of test	18 April 2024

DIRECTOR:



Dr. AHA Roediger

This test report is issued by RAcc under its general conditions of service all results shown in this report refer only the sample(s) tested.

Certified tests / measurements

No	Name of the index	Unit	Standard / validated methods	Measured value, uncertainty	Value and tolerance of the index	Test conditions
1	Overall migration	mg/dm ²	BS EN 1186-5 2002	0.25	Acc. Commission Regulation (EU) no 10/2011 Max. 10	10 days at 40 °C, food simulant C (20% ethanol), ratio of volume of food simulant: area = 100 mL : 2.10 dm ²
2	Specific migration: Content of primary aromatic amines in food simulants	mg/kg	In-house method 14/2014	<0.01	Acc. Commission Regulation (EU) no 10/2011 <0.01	
3	Specific migration: Content caprolactam and caprolactam salt in food simulants	mg/kg	CEN/TS 13130-16:2005	<0.5	Acc. Commission Regulation (EU) no 10/2011 Max. 15	
4	Specific migration: Content of ethylenediamine and hexamethylenediamine in food simulants	mg/kg	CEN/TS 13130-21:2005	EDA <0.5 HMDA <0.5	Acc. Commission Regulation (EU) no 10/2011 ethylenediamine Max. 12,0 hexamethylenediamine Max. 2,4	
5	Specific migration: Content of antioxidants in food simulants	mg/kg	ASTM D6042 2009	BHT <0.0005 Erucamide <0.0005 Irganox3114 <0.0005 Irganox1010 <0.002 Irganox1076 <0.0005 Irgafos168 <0.008	Acc. Commission Regulation (EU) no 10/2011 BHT max. 3.0 mg/kg Erucamide max. 60.0 mg/kg Irganox3114 max. 5.0 mg/kg Irganox1010 max. 60.0 mg/kg Irganox1076 max. 6.0 mg/kg Irgafos168 max. 60.0 mg/kg	
6	Specific migration: Content of metal ions	mg/kg	In-house method 17/2014	Al < 0.1 Ba < 0.1 Co < 0.05 Cu < 0.1 Fe < 0.1 Li < 0.1 Mn < 0.1 Ni < 0.01 Zn < 0.1	Acc. Commission Regulation (EU) no 10/2011 Al max. 1 Ba max. 1 Co max. 0.05 Cu max. 5 Fe max. 48 Li max. 0.6 Mn max. 0.6 Ni max. 0.02 Zn max. 5	
7	BPA	mg/kg	GCMS	<0.05	Max 0.6	
8	Mineral Oils (MOSH/MOAH)	mg/kg	GCMS	None found	<0.05 Average molecular weight not less than 500 Da	
9	Phthalates	mg/kg	GCMS	<0.01	Max 0.01	
10	RoHS	100 ppb	ICP-MS	Not present	Not allowed	
11	Pentachlorophenyls / Polychlorinated Biphenyls	mg/kg	GCMS	Not detected	Not allowed	
12	Dioxin and Furan	mg/kg	GCMS	Not detected	Not allowed	
13	Anthraquinone	mg/kg	GCMS	Not detected	Not allowed	
14	Chlorinated compounds	mg/kg	GCMS	Not detected	Not allowed	

Summary

The rPET thermoform tray conforms to the limitations put out by EU 10/2011 with regards to simulant C under the specified test conditions.