

Test Report

Customer: Rutland Plastic Technologies Inc.
10021 Rodney Street
28134 Pineville - North Carolina
United States

Contact Person: Mr. Tony Chapman

Customer Reference: MIXE/3DSE

Report No.: (25416)082-294097

Report Version: 1

Date of Reception: 11.03.2016

Report Date: 22.03.2016

Date of Order: 10.03.2016

Sampled By: client

Sample Information

Testing Requirements: Tested according to "ordered" requirements

Sample Description: EF MIXOPAKE/HI SQUARE SERIES

Performance Date: 11.03.2016 - 22.03.2016

No. of workdays: 6

Submitted Samples

Nr. 1



Summary of Test Results

Tested according to "ordered" requirements

Tests required	Conclusion	Remark
Heavy metals, total content	Pass	
Phthalates, CPSIA testing	Pass	
Phthalates	Pass	

Please note that we dried the sample at 160°C for 1 minute.

Tested Samples

Article No	Sample ID	Sample description
	294097-01	1) Ink pink

Test Results

Tested according to "ordered" requirements

Sample Description:	1) Ink pink	Lab Reference No:	294097-01
Test Method / Standard:	Phthalates: DIN EN ISO 14389 (modified), extraction with THF/ACN followed by GC-MS and/or LC-MS analysis, reporting limit: 50 mg/kg		
Parameter	Limit	Result	Rating
Phthalates	≤ 1000 mg/kg	not detected	Pass
Test Method / Standard:	Phthalates: CPSC-CH-C1001-09.3 (modified) - (CPSIA), reporting limit: 50 mg/kg		
Test Location:	Parameter has been analyzed at BVCPS laboratory Schwerin.		
Parameter	Limit	Result	Rating
Di(2-ethylhexyl)phthalates (DEHP)	≤ 1000 mg/kg	<50 mg/kg	Pass
Dibutylphthalates (DBP)	≤ 1000 mg/kg	<50 mg/kg	Pass
Benzylbutylphthalate (BBP)	≤ 1000 mg/kg	<50 mg/kg	Pass
Di-iso-nonylphthalates (DINP)	≤ 1000 mg/kg	<50 mg/kg	Pass
Di-iso-decylphthalates (DIDP)	≤ 1000 mg/kg	<50 mg/kg	Pass
Di-n-octylphthalates (DNOP)	≤ 1000 mg/kg	<50 mg/kg	Pass
Test Method / Standard:	Heavy metals, total content: Microwave digestion with salpetric acid/hydrochloric acid followed by ICP analysis, reporting limits: Cd: 25 mg/kg, Cr: 3 mg/kg, Pb: 50 mg/kg, Hg: 0.1 mg/kg, Sn: 0.1 mg/kg		
Test Location:	Parameter has been analyzed at BVCPS laboratory Schwerin.		
Parameter	Limit	Result	Rating
Cadmium (Cd)	≤ 50 mg/kg	<25 mg/kg	Pass
Chromium (Cr)		<3 mg/kg	No Specification
Lead (Pb)	≤ 90 mg/kg	<50 mg/kg	Pass
Mercury (Hg)	≤ 1 mg/kg	<0.1 mg/kg	Pass
Tin (Sn)		1.68 mg/kg	No Specification

All services provided by Bureau Veritas Consumer Products Services Germany GmbH are subject to our current Terms and Conditions . The test result relates only to the tested item. Without the written consent of Bureau Veritas Consumer Products Services Germany GmbH excerpts of this report shall not be reproduced. Tests not covered by the laboratory's testing spectrum may be subcontracted to an accredited laboratory. The accreditation relates to competences stated on the accreditation certificate. If nothing else has been agreed on samples are stored for 3 months. All tested parameters are listed in the appendix.

The testing of mixed samples is carried out at the customer's explicit request and may imply a deviation from the testing standard. Please note the following: results for mixed samples that are below the limit may exceed the limit if the samples contained in the mixed sample are tested individually. In these cases separate testing of the samples is recommended.

Performance Date: 11.03.2016 - 22.03.2016

Total Run Time: 6



Dr. Tim Lubinus
Analytical Testing Specialist

No results printed beyond this point in the report

Detailed Method Descriptions

Analysis / Test: Phthalates
CPSIA Sec.108, 101 (a)(2), test method: CPSC-CH-C1001-09.3 (modified) - (CPSIA), GC-MS analysis; reporting limit: 50 mg/kg.

Parameters & CAS No.

Heavy metals, total content	(CAS No.)
Lead (Pb) (7439-92-1)	
Mercury (Hg) (7439-97-6)	
Tin (Sn) (7440-31-5)	
Cadmium (Cd) (7440-43-9)	
Chromium (Cr) (7440-47-3)	

Phthalates	(CAS No.)
Di(2-ethylhexyl)phthalates (DEHP) (117-81-7)	
Di-n-octylphthalates (DNOP) (117-84-0)	
Di-iso-decylphthalates (DIDP) (26761-40-0)	
Di-iso-nonylphthalates (DINP) (28553-12-0)	
Dibutylphthalates (DBP) (84-74-2)	
Benzylbutylphthalate (BBP) (85-68-7)	

Phthalates	(CAS No.)
Di(2-ethylhexyl)phthalate (DEHP) (117-81-7)	
Bis(2-methoxyethyl) phthalate (DMEP) (117-82-8)	
Di-n-octylphthalate (DNOP) (117-84-0)	
Di-iso-decylphthalate (DIDP) (26761-40-0)	
Di-iso-nonylphthalate (DINP) (28553-12-0)	
1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP) -> determined as Diundecylphthalate (68515-42-4, 3648-20-2)	
1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP) (71888-89-6)	
Di-iso-butylphthalate (DIBP) (84-69-5)	
Dibutylphthalate (DBP) (84-74-2)	
Di-n-hexyl phthalate (DnHP) (84-75-3)	
Benzylbutylphthalate (BBP) (85-68-7)	