

## Test Report

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

**Contact Person:** Mr. Tony Chapman

**Customer Reference:** PLUE/PATE/PLFE/PAGE

**Report No.:** (25416)082-294105

**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:** METALLIC/SCHIMMER/GLITTER 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
	294105-01	1) Ink grey/green metallic

### Test Results

Tested according to "ordered" requirements

<b>Sample Description:</b>	1) Ink grey/green metallic		<b>Lab Reference No:</b>	294105-01
<b>Test Method / Standard:</b>	Phthalates: DIN EN ISO 14389 (modified), extraction with THF/ACN followed by GC-MS and/or LC-MS analysis, reporting limit: 50 mg/kg			
<b>Parameter</b>	<b>Limit</b>	<b>Result</b>	<b>Rating</b>	
Phthalates	≤ 1000 mg/kg	not detected	Pass	
<b>Test Method / Standard:</b>	Phthalates: CPSC-CH-C1001-09.3 (modified) - (CPSIA), reporting limit: 50 mg/kg			
<b>Test Location:</b>	Parameter has been analyzed at BVCPS laboratory Schwerin.			
<b>Parameter</b>	<b>Limit</b>	<b>Result</b>	<b>Rating</b>	
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	
<b>Test Method / Standard:</b>	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			
<b>Test Location:</b>	Parameter has been analyzed at BVCPS laboratory Schwerin.			
<b>Parameter</b>	<b>Limit</b>	<b>Result</b>	<b>Rating</b>	
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)		50.4 mg/kg	No Specification	

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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

<b>Analysis / Test:</b> 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)	