

Test Report

Customer:	Polyone 10021 Rodney St NC28134 Pineville USA	Report No.:	(25419)074-426613
Contact Person:	Mrs. Andrea Jones	Report Version:	1
Customer Reference:	Product series: MIXE/3DSE Product codes: MIXE 2002 / MIXE 3007 Lot No.: 240086 / 240516	Date of Reception:	08.03.2019
		Report Date:	15.03.2019
		Sampled By:	client

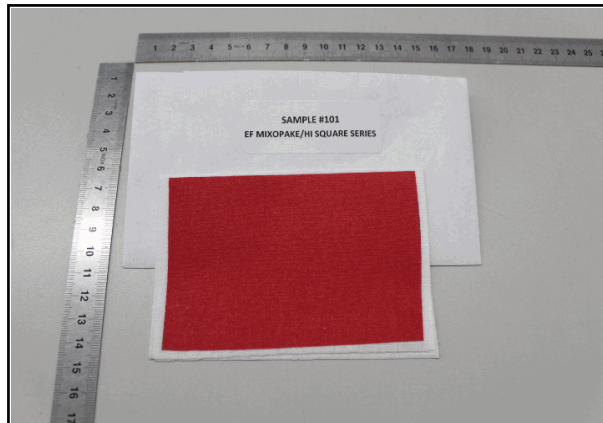
Sample Information

Testing Requirements: Tested according to "ordered" requirements
Sample Description: EF MIXOPAKE/HI SQUARE SERIES

Performance Date: 08.03.2019 - 15.03.2019 **No. of workdays:** 5

Submitted Samples

Nr. 1



Summary of Test Results

Tested according to "ordered" requirements

Tests required	Evaluation	Remark
Heavy metals, total content	Pass	
Heavy metals in surface coatings, total content	Pass	
Phthalates (CPSIA)	Pass	
Phthalates	Pass	

Tested Samples

Article No	Sample ID	Sample description
	426613-01	1) Print red on fabric white

Test Results

Tested according to "ordered" requirements


Sample Description:		1) Print red on fabric white		Lab Reference No:	426613-01
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			
Test Location:		Parameter has been analyzed at BVCPS laboratory Schwerin.			
Parameter	Limit	Result	Evaluation		
Phthalates	≤ 1000 mg/kg	not detected	Pass		
Test Method / Standard:		Phthalates (CPSIA): CPSIA Sec.108, 101 (a)(2), Draft CPSC-CH-C1001-09.4, GC-MS analysis, reporting limit: 50 mg/kg / 0.005 %			
Test Location:		Parameter has been analyzed at BVCPS laboratory Schwerin.			
Parameter	Limit	Result	Evaluation		
Di(2-ethylhexyl)phthalate (DEHP)	≤ 1000 mg/kg	<50 mg/kg	Pass		
Dibutylphthalate (DBP)	≤ 1000 mg/kg	<50 mg/kg	Pass		
Benzylbutylphthalate (BBP)	≤ 1000 mg/kg	<50 mg/kg	Pass		
Di-iso-nonylphthalate (DINP)	≤ 1000 mg/kg	<50 mg/kg	Pass		
Diisobutylphthalate (DIBP)	≤ 1000 mg/kg	<50 mg/kg	Pass		
Di-n-pentylphthalate (DPENP)	≤ 1000 mg/kg	<50 mg/kg	Pass		
Di-n-hexylphthalate (DHEXP)	≤ 1000 mg/kg	<50 mg/kg	Pass		
Dicyclohexylphthalate (DCHP)	≤ 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			
Test Location:		Parameter has been analyzed at BVCPS laboratory Schwerin.			
Parameter	Limit	Result	Evaluation		
Arsenic (As)	≤ 100 mg/kg	<1 mg/kg	Pass		
Cadmium (Cd)	≤ 75 mg/kg	<1 mg/kg	Pass		
Lead (Pb)	≤ 90 mg/kg	<1 mg/kg	Pass		
Mercury (Hg)	≤ 0.5 mg/kg	<0.1 mg/kg	Pass		
Tin (Sn)		2.05 mg/kg	No Specification		
Test Method / Standard:		Heavy metals in surface coatings, total content: CPSC-CH-E-1003-9 modified, CPSD-AN-00001-MTHD			
Test Location:		Parameter has been analyzed at BVCPS laboratory Schwerin.			
Parameter	Limit	Result	Evaluation		
Arsenic (As)	≤ 100 mg/kg	<1 mg/kg	Pass		
Cadmium (Cd)	≤ 75 mg/kg	<1 mg/kg	Pass		
Lead (Pb)	≤ 90 mg/kg	<1 mg/kg	Pass		
Mercury (Hg)	≤ 0.5 mg/kg	<0.1 mg/kg	Pass		
Tin (Sn)		2.05 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: 08.03.2019 - 15.03.2019

Total Run Time: 5



Ute Freyemann
Analytical Testing Specialist

No results printed beyond this point in the report

Detailed Method Descriptions

Analysis / Test:	Heavy metals in surface coatings, total content
	CPSC-CH-E-1001-8.1 modified, CPSC-CH-E-1002-8.1 modified, CPSD-AN-00066-MTHD, CPSD-AN-00164-MTHD

Parameters & CAS No.

Heavy metals, total content	(CAS No.)
Lead (Pb) (7439-92-1)	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP) (71888-89-6)
Mercury (Hg) (7439-97-6)	Di-iso-butylphthalate (DIBP) (84-69-5)
Tin (Sn) (7440-31-5)	Dibutylphthalate (DBP) (84-74-2)
Arsenic (As) (7440-38-2)	Di-n-hexyl phthalate (DnHP) (84-75-3)
Cadmium (Cd) (7440-43-9)	Benzylbutylphthalate (BBP) (85-68-7)

Heavy metals in surface coatings, total content	(CAS No.)
Lead (Pb) (7439-92-1)	
Mercury (Hg) (7439-97-6)	
Tin (Sn) (7440-31-5)	
Arsenic (As) (7440-38-2)	
Cadmium (Cd) (7440-43-9)	

Phthalates (CPSIA)	(CAS No.)
Di(2-ethylhexyl)phthalate (DEHP) (117-81-7)	
Di-n-pentylphthalate (DPENP) (131-18-0)	
Di-iso-nonylphthalate (DINP) (28553-12-0)	
Dicyclohexylphthalate (DCHP) (84-61-7)	
Diisobutylphthalate (DIBP) (84-69-5)	
Dibutylphthalate (DBP) (84-74-2)	
Di-n-hexylphthalate (DHEXP) (84-75-3)	
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)	