

## Test Report

KE/2019/12223

Date : Jan 29, 2019

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Formosa Plastics Corporation  
8F, No. 201, Tun Hua N. Rd., Taipei, Taiwan

The following sample(s) was / were submitted and identified on behalf of the client as :

Material Name : Formocon  
Color : Nature  
Style / Item No. : R6  
Material Composition : Polyoxymethylene  
Sample Submitted By : Formosa Plastics Corporation  
Sample Receiving Date : Jan 23, 2019  
Testing Period : Jan 23, 2019 ~ Jan 29, 2019

Test Method & Results : Please refer to next page(s).

  
**Ray Chang Ph.D. / Manager - Tech**  
Signed for and on behalf of  
**SGS Taiwan Limited**  
Chemical Laboratory-Kaohsiung



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Test Results :

## EN71-3:2013+A3:2018 – Migration of certain elements

Category III: Scrapped-off toy material

Method : With reference to EN 71-3:2013+A3:2018. Analysis of general elements was performed by ICP-OES. Chromium III & Chromium VI were analyzed by LC-ICP-MS. Organic Tin was analyzed by GC-MS.

Test Item		Result (mg/kg)	Reporting Limit (mg/kg)	Reference Limit** (mg/kg)
		1		
Soluble Aluminium	(Al)	n.d.	50	70,000
Soluble Antimony	(Sb)	n.d.	10	560
Soluble Arsenic	(As)	n.d.	10	47
Soluble Barium	(Ba)	n.d.	50	18,750
Soluble Boron	(B)	n.d.	50	15,000
Soluble Cadmium	(Cd)	n.d.	5	17
Soluble Chromium (III)	(Cr (III))	n.d.	5	460
Soluble Chromium (VI)	(Cr (VI))	n.d.	0.18	0.2
Soluble Cobalt	(Co)	n.d.	10	130
Soluble Copper	(Cu)	n.d.	50	7,700
Soluble Lead	(Pb)	n.d.	10	23
Soluble Manganese	(Mn)	n.d.	50	15,000
Soluble Mercury	(Hg)	n.d.	10	94
Soluble Nickel	(Ni)	n.d.	10	930
Soluble Selenium	(Se)	n.d.	10	460
Soluble Strontium	(Sr)	n.d.	50	56,000
Soluble Zinc	(Zn)	n.d.	50	46,000
Soluble Tin	(Sn)	n.d.	4.9	180,000
Soluble Organic Tin	--	n.d.	--	12

Test Item(s)		Soluble Organic Tin Result(s) (mg/kg)	MDL (mg/kg)
		1	
Methyl tin	(MeT)	n.d.	0.5
Di-n-propyl tin	(DProT)	n.d.	0.5
Butyl tin	(BuT)	n.d.	0.5
Dibutyl tin	(DBT)	n.d.	0.5
Tributyl tin	(TBT)	n.d.	0.5
n-Octyl tin	(MOT)	n.d.	0.5
Tetrabutyl tin	(TeBT)	n.d.	0.5
Diphenyl tin	(DPhT)	n.d.	0.5
Di-n-octyl tin	(DOT)	n.d.	0.5
Triphenyl tin	(TPhT)	n.d.	0.5

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### Sample Description :

1. Nature Polyoxymethylene

Note : - mg/kg = milligram per kilogram  
- n.d. = Not Detected  
- 1% = 10000 mg/kg = 10000 ppm

Remark : \*\* = Test requirement in the submitted sample is not applicable. The product scope that mentioned by European Directive 2009/48/EC and its amendment Council Directive (EU) 2017/738 is for toy material.

### Sample Photo

# KE/2019/12223



SGS authenticate the photo on original report only

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

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