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Formosa Plastics Corporation
No.1-1, Shih-Hwa 1st Rd., Lin-Yuan District, Kaohsiung City, Taiwan (R.O.C.)

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

Material Name	:	Polypropylene Homopolymer
Color	:	Clear Semi-White
Style / Item No.	:	1003,1005,1005N,1005T,1009,1020,1020L,1020T,1024,1024T, 1030T,1040,1040F,1040U,1080,1100,1120,1120D,1124,1124H, 1202F,1250D,1350D,1352F,1352S,1450D,1600A,1600D,1600N, 1700D,1900D,1925,1990,2020,2020H,2020S,2080,2100,2100, 2100T,6005P,6020P
Sample Submitted By	:	Formosa Plastics Corporation
Sample Receiving Date	:	Dec 27, 2019
Testing Period	:	Dec 27, 2019 ~ Jan 03, 2020

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

Ray Chang

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: 2019 – Migration of certain elements

Category III: Scrapped-off toy material

Method : With reference to EN71-3: 2019. Analysis of general elements was performed by ICP-MS. Chromium (III) was obtained by calculation, Chromium (VI) was 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	(Cr)	0.0325	0.01	--
Soluble Chromium (III)	(Cr (III))	n.d.	5	460
Soluble Chromium (VI)	(Cr (VI))	n.d.	0.01	0.053
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.	1.8
Dimethyl tin	(DMT)	n.d.	1.8
Di-n-propyl tin	(DProT)	n.d.	1.8
Butyl tin	(BuT)	n.d.	1.8
Dibutyl tin	(DBT)	n.d.	1.8
Tributyl tin	(TBT)	n.d.	1.8
n-Octyl tin	(MOT)	n.d.	1.8
Tetrabutyl tin	(TeBT)	n.d.	1.8
Diphenyl tin	(DPhT)	n.d.	1.8
Di-n-octyl tin	(DOT)	n.d.	1.8
Triphenyl tin	(TPhT)	n.d.	1.8

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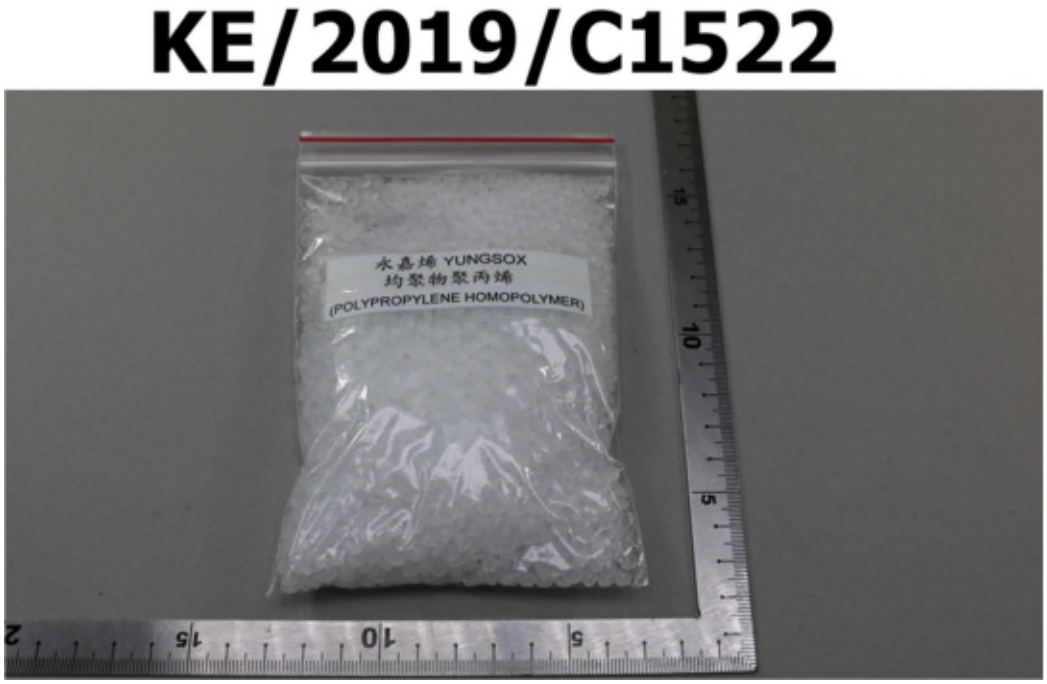
Sample Description :
1. Clear Semi-White Polypropylene Homopolymer

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, Commission Directive (EU) 2018/725 is for toy material.

Sample Photo



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