

Test Report

Report No.: SFW24100299 Report Issue Date : Jan 11, 2024 Page 1 of 3

Formosa Plastics Corporation
No. 100, Shui-Guan Rd., Jen-Wu Dist., Kaohsiung City, Taiwan (R.O.C.)

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

Material Name : Processing aids
Color : White
Style / Item No. : P-1000
Material Composition : Processing aids
Sample Submitted By : Formosa Plastics Corporation

* * * * *

Sample Receiving Date : Jan 05, 2024
Testing Period : Jan 05, 2024 - Jan 11, 2024

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

Ray Chang

Ray Chang, Ph.D. / Department Manager
Signed for and on behalf of
SGS Taiwan Ltd.
Chemical Laboratory-Kaohsiung



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Test Report

Report No.: SFW24100299 Report Issue Date : Jan 11, 2024 Page 2 of 3

Test Results :

EN71-3: 2019 + A1:2021 – Migration of certain elements

Category I: Dry, brittle, powder-like or pliable toy material

Method : With reference to EN71-3: 2019 + A1:2021. 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 Aluminum | (Al) | n.d. | 50 | 2,250 |
| Soluble Antimony | (Sb) | n.d. | 1 | 45 |
| Soluble Arsenic | (As) | n.d. | 0.5 | 3.8 |
| Soluble Barium | (Ba) | n.d. | 50 | 1,500 |
| Soluble Boron | (B) | n.d. | 50 | 1,200 |
| Soluble Cadmium | (Cd) | n.d. | 0.1 | 1.3 |
| Soluble Chromium (III) | (Cr (III)) | n.d. | 5 | 37.5 |
| Soluble Chromium (VI) | (Cr (VI)) | n.d. | 0.01 | 0.02 |
| Soluble Cobalt | (Co) | n.d. | 0.5 | 10.5 |
| Soluble Copper | (Cu) | n.d. | 50 | 622.5 |
| Soluble Lead | (Pb) | n.d. | 0.5 | 2.0 |
| Soluble Manganese | (Mn) | n.d. | 50 | 1,200 |
| Soluble Mercury | (Hg) | n.d. | 0.5 | 7.5 |
| Soluble Nickel | (Ni) | n.d. | 10 | 75 |
| Soluble Selenium | (Se) | n.d. | 5 | 37.5 |
| Soluble Strontium | (Sr) | n.d. | 50 | 4,500 |
| Soluble Zinc | (Zn) | n.d. | 50 | 3,750 |
| Soluble Tin | (Sn) | n.d. | 0.36 | 15,000 |
| Soluble Organic Tin | -- | n.d. | -- | 0.9 |

| Test Item(s) | | Soluble Organic Tin Result(s) (mg/kg) | MDL (mg/kg) |
|-----------------|---------|---------------------------------------|-------------|
| | | 1 | |
| Methyl tin | (MeT) | n.d. | 0.135 |
| Dimethyl tin | (DMT) | n.d. | 0.135 |
| Di-n-propyl tin | (DProT) | n.d. | 0.135 |
| Butyl tin | (BuT) | n.d. | 0.135 |
| Dibutyl tin | (DBT) | n.d. | 0.135 |
| Tributyl tin | (TBT) | n.d. | 0.135 |
| n-Octyl tin | (MOT) | n.d. | 0.135 |
| Tetrabutyl tin | (TeBT) | n.d. | 0.135 |
| Diphenyl tin | (DPhT) | n.d. | 0.135 |
| Di-n-octyl tin | (DOT) | n.d. | 0.135 |
| Triphenyl tin | (TPhT) | n.d. | 0.135 |

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Test Report

Report No.: SFW24100299 Report Issue Date : Jan 11, 2024 Page 3 of 3

Sample Description :

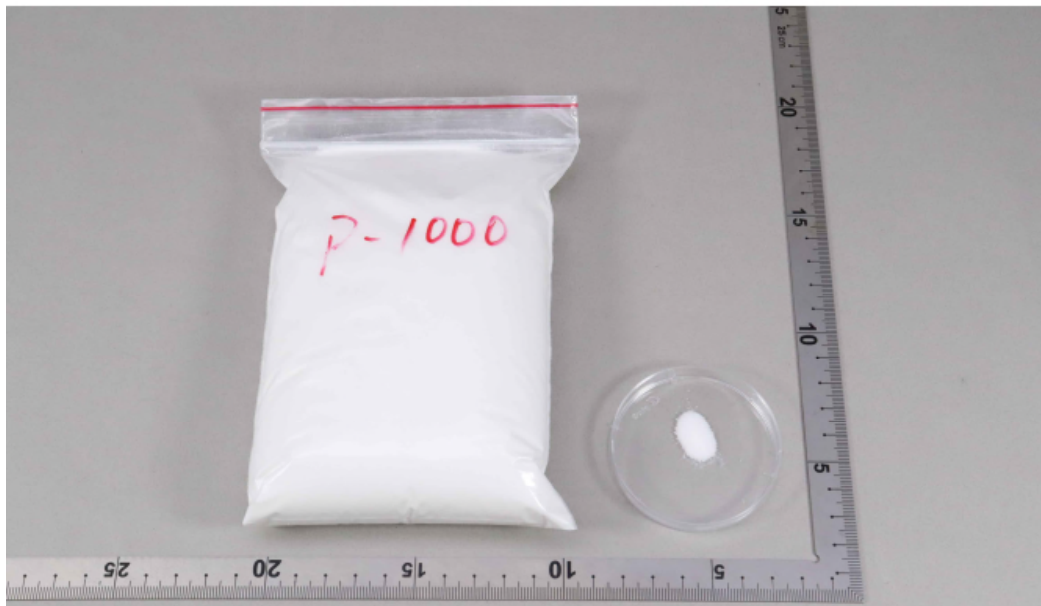
1. White Powder

Note : - mg/kg = milligram per kilogram
- n.d. = Not Detected
- 1 % = 10000 mg/kg = 10000 ppm
- Soluble Chromium (III) = Soluble Total Chromium – Soluble Chromium (VI)

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) 2019/1922 is for toy material.

Sample Photo

SFW24100299



SGS authenticate the photo on original report only

*** End of Report ***

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