

Test Report

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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 Impact Copolymer |
| Color | : | White Semi-Clear |
| Style / Item No. | : | 3003,3004,3005,3010,3015,3015S,3040,3040C,3040S, 3064H,3080,3080P,3084,3084H,3090,3155,3184,3200W, 3204,3206W,3300N,3304,3354,3504,3600N,4084,4204, 4206,4304,4306,4604 |
| Material Composition | : | 100% Polypropylene Copolymer |
| Sample Submitted By | : | Formosa Plastics Corporation |
| | * | * * * * |
| Sample Receiving Date | : | Jan 07, 2025 |
| Testing Period | : | Jan 07, 2025 - Jan 13, 2025 |
| 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 Results :

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

Category III: Scrapped-off 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 | 28,130 |
| 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. | 0.01 | 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. White Semi-Clear Pellets

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) 2019/1922 is for toy material.

Sample Photo

SFW25100663



SGS authenticate the photo on original report only

*** End of Report ***

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