

Test Report Page: 1 of 4 No.: KU/2018/60016 Date: 2018/07/12

FORMOSA PLASTICS CORPORATION

NO.1-1, SHIHUA 1ST RD., LINYUAN DIST., KAOHSIUNG CITY 83245, TAIWAN (R.O.C.)

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

: FORMOSA PLASTICS CORPORATION Sample Submitted By Sample Description : POLYPROPYLENE IMPACT COPOLYMER

 $: \quad 3003, 3003H, 3004, 3005, 3005H, 3010, 3015, 3020, 3040, 3040C, 3064H, 3080, 3084, \\$ Style/Item No.

3084H.3090,3155,3200W.3204,3354,3504,4084,4204,4304,4604,6025

100%POLYPROPYLENE COPOLYMER Sample Material

Sample Receiving Date 2018/06/07

Testing Period 2018/06/07 TO 2018/07/12

Test Requested : As specified by client, the sample(s) was/were tested with reference to Commission

Regulation (EU) No. 10/2011 with amendments and hence Article 3 of European

Regulation No. 1935/2004. Please refer to result table for testing item(s).

Please refer to following pages. Test Result(s)

Ray Chang Ph.D. Wivianag Signed for and on b

SGS Taiwan Limited

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Test Report Page: 2 of 4 No.: KU/2018/60016 Date: 2018/07/12

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Test Result(s)

PART NAME No.1 : WHITE PLASTIC SHEET

PASS

					PA55
Test Item(s)	Unit	Method	MDL	Result No.1	Limit
Overall migration (3% Acetic Acid)	mg/dm²	With reference to EN 1186 (2002). (40°C for 10 Days)	3.0	n.d.	10
Substitute Test (95% ethanol)	mg/dm²	With reference to EN 1186 (2002). (40°C for 10 Days)	3.0	n.d.	10
Substitute Test (Isooctane)	mg/dm²	With reference to EN 1186 (2002). (20°C for 2 Days)	3.0	3.37	10
Specific migration of Primary Aromatic Amine (PAA)	mg/kg	With reference to EN 13130-1 (2004) and BfR recommendation XXI. Analysis was performed by UV-vis Spectrophotometer. (3% acetic acid, 40°C, 10 Days)	0.002	n.d.	0.01 (▲1)
Aluminum (Al)	mg/kg		0.25	n.d.	1
Barium(Ba)	mg/kg	With reference to EN 13130-1 (2004). Analysis was performed by ICP-AES. (3% Acetic acid, 40°C, 10 Days)	0.25	n.d.	1
Cobalt(Co)	mg/kg		0.01	n.d.	0.05
Copper(Cu)	mg/kg		0.25	n.d.	5
Iron(Fe)	mg/kg		0.25	n.d.	48
Lithium(Li)	mg/kg		0.5	n.d.	0.6
Manganese(Mn)	mg/kg		0.25	n.d.	0.6
Zinc(Zn)	mg/kg		0.5	n.d.	5
Nickel (Ni)	mg/kg	With reference to EN 13130-1 (2004). Analysis was performed by ICP-MS. (3% acetic acid, 40°C, 10 Days)	0.01	n.d.	0.02

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Test Report Page: 3 of 4 No.: KU/2018/60016 Date: 2018/07/12

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Remark:

- (▲1): Limit is according to Council of Europe Resolution AP (2004) 4.
- Substitute Test: Test Condition of OM2 in (EU) No 10/2011 is specified by client and conventional condition for the substitute tests instead of OM2 is based on EN 1186-1 and EN 13130-1.

Test condition with simulant D2	Test condition with simulant ethanol 95%	Test condition with simulant iso-Octane
10 day at 40°C	10 day at 40°C	2 day at 20°C

Note:

- 1. mg/kg = ppm; mg/dm² = milligram per square decimeter;
- 2. mg/dm² = milligram per square decimeter
- 3. MDL = Method Detection Limit
- 4. n.d. = Not Detected = below MDL
- 5. °C = degree Celsius
- 6. Test condition & simulant were specified by client.

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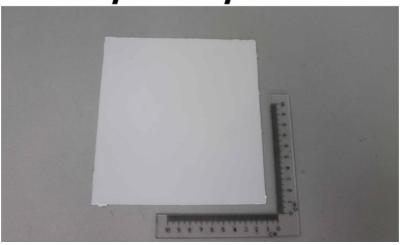


Test Report Page: 4 of 4 No.: KU/2018/60016 Date: 2018/07/12

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* The tested sample / part is marked by an arrow if it's shown on the photo. *

KU/2018/60016



** End of Report **

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