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Chemical Laboratory - Kao.,SGS Taiwan Ltd.

Test Report

No. : KU/2018/60015 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 :

Sample Submitted By	:	FORMOSA PLASTICS CORPORATION
Sample Description	:	POLYPROPYLENE HOMOPOLYMER
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,1252F,1350D,1352F, 1352S,1450D,1600A,1600D,1600N,1700D,1900D,1990,2020,2020H,2020S,2080, 2100,2100M,2100T,6005P,6020P
Sample Material	:	100% POLYPROPYLENE
Sample Receiving Date	:	2018/06/07
Testing Period	:	2018/06/07 TO 2018/07/12

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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).

Test Result(s) : Please refer to following pages.

SGS TAIWAN LTD SGS TAIWAN

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

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Test Result(s)

PART NAME No.1 : WHITE PLASTIC SHEET

PASS

Test Item(s)	Unit	Method	MDL	Result No.1	Limit
Overall migration (3% Acetic Acid)	mg/dm²	With reference to EN 1186 (2002). (40℃ for 10 Days)	3.0	n.d.	10
Substitute Test (95% ethanol)	mg/dm²	With reference to EN 1186 (2002). (40℃ for 10 Days)	3.0	n.d.	10
Substitute Test (Isooctane)	mg/dm²	With reference to EN 1186 (2002). (20℃ for 2 Days)	3.0	n.d.	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℃, 10 Days)	0.002	n.d.	0.01 (▲1)
Aluminum (Al)	mg/kg	With reference to EN 13130-1 (2004). Analysis was performed by ICP-AES. (3% Acetic acid, 40℃, 10 Days)	0.25	n.d.	1
Barium(Ba)	mg/kg		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℃, 10 Days)	0.01	n.d.	0.02

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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℃	10 day at 40℃	2 day at 20℃

Note：

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

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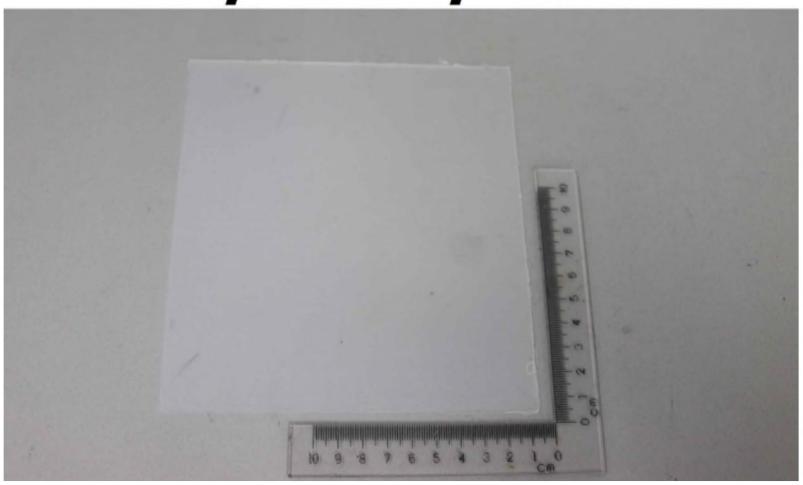
*** The tested sample / part is marked by an arrow if it's shown on the photo. ***

KU/2018/60015



** End of Report **

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