

# TEST REPORT

KOTITI No. | 8224-1401-108144

Applicant | Avery Dennison Korea

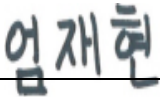
Date In | Dec 16, 2024

Date Out | Jan 03, 2025

|                    |                                                             |
|--------------------|-------------------------------------------------------------|
| Issue No           | 4814507056                                                  |
| Sample Description | CL PP TCY                                                   |
| Sample Quantity    | One (1) Sample(s)                                           |
| Buyer              | N/S                                                         |
| Item Number        | CL PP TCY                                                   |
| Material           | Film                                                        |
| Testing Period     | Dec 16, 2024 ~ Jan 03, 2025                                 |
| Test Result        | For further details, please refer to the following page(s). |

\*N/S : Not Submitted, N.A. : Not Applicable, N.D. : Not Detected [< RL(Report Limit)]

\*Negative : Not Detected, Positive : Detected

|             |                                                                                                                       |                                                                                                                               |
|-------------|-----------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| Affirmation | Prepared by<br>Name : Jae Hyun Um  | Technical Manager<br>Name : Woo Ram Lee  |
|-------------|-----------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|

**KOTITI** Testing & Research Institute



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1. The test results contained in this report are limited to results on the sample(s) that is provided by client and are not necessarily indicative or representative of the qualities of the lot from which the sample(s) was taken or of all products.
2. Further use of the results of this report is prohibited unless allowed under a separate agreement set forth in an official document that is established between the client identified on this letter and the KOTITI Testing & Research Institute.
3. The test result in this report is not related to Accreditation of KOLAS.
4. You can verify the authenticity by the QR code at the bottom right side of the issued report or access <http://cs.kotiti-global.com> and enter the test report number.



QPF-16-06(rev.02)

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| Tested Sample List |                    |           |          |
|--------------------|--------------------|-----------|----------|
| Sample No.         | Sample Description | Item No.  | Material |
| 1                  | CL PP TCY          | CL PP TCY | Film     |

**RoHS, Unit : mg/kg**  
**(EU Directive 2011/65/EU, 2015/863/EU)**

| Test Conducted                         | Test Method                                                               | RL | Test Results |
|----------------------------------------|---------------------------------------------------------------------------|----|--------------|
| 1                                      |                                                                           |    |              |
| Lead (Pb)                              | IEC 62321-5:2013 (Acid digestion and determined by ICP-OES)               | 5  | N.D.         |
| Cadmium (Cd)                           |                                                                           | 2  | N.D.         |
| Mercury (Hg)                           | IEC 62321-4:2013+AMD1:2017 CSV (Acid digestion and determined by ICP-OES) | 1  | N.D.         |
| Hexavalent Chromium(Cr <sup>6+</sup> ) | IEC 62321-7-2:2017 (Solvent extraction and determined by UV-VIS)          | 8  | N.D.         |

**\* Polybrominated Biphenyls(PBBs)**

|                    |                                                               |   |      |
|--------------------|---------------------------------------------------------------|---|------|
| Bromobiphenyl      | IEC 62321-6:2015 (Solvent extraction and determined by GC-MS) | 5 | N.D. |
| Dibromobiphenyl    |                                                               | 5 | N.D. |
| Tribromobiphenyl   |                                                               | 5 | N.D. |
| Tetrabromobiphenyl |                                                               | 5 | N.D. |
| Pentabromobiphenyl |                                                               | 5 | N.D. |
| Hexabromobiphenyl  |                                                               | 5 | N.D. |
| Heptabromobiphenyl |                                                               | 5 | N.D. |
| Octabromobiphenyl  |                                                               | 5 | N.D. |
| Nonabromobiphenyl  |                                                               | 5 | N.D. |
| Decabromobiphenyl  |                                                               | 5 | N.D. |
| Sum of PBBs        |                                                               | – | N.D. |

**\* Polybrominated Diphenyl Ethers(PBDEs)**

|                          |                                                               |   |      |
|--------------------------|---------------------------------------------------------------|---|------|
| Bromodiphenyl ether      | IEC 62321-6:2015 (Solvent extraction and determined by GC-MS) | 5 | N.D. |
| Dibromodiphenyl ether    |                                                               | 5 | N.D. |
| Tribromodiphenyl ether   |                                                               | 5 | N.D. |
| Tetrabromodiphenyl ether |                                                               | 5 | N.D. |
| Pentabromodiphenyl ether |                                                               | 5 | N.D. |
| Hexabromodiphenyl ether  |                                                               | 5 | N.D. |
| Heptabromodiphenyl ether |                                                               | 5 | N.D. |
| Octabromodiphenyl ether  |                                                               | 5 | N.D. |
| Nonabromodiphenyl ether  |                                                               | 5 | N.D. |
| Decabromodiphenyl ether  |                                                               | 5 | N.D. |
| Sum of PBDEs             |                                                               | – | N.D. |

**Phthalates, Unit : mg/kg**  
(EU Directive 2011/65/EU, 2015/863/EU)

| Test Conducted                  | Test Method                                                            | RL | Test Results |
|---------------------------------|------------------------------------------------------------------------|----|--------------|
| 1                               |                                                                        |    |              |
| di-n-butyl phthalate (DBP)      | IEC 62321-8:2017 (Solvent extraction and determined by GC-MS or LC-MS) | 50 | N.D.         |
| di(ethylhexyl) phthalate (DEHP) |                                                                        | 50 | N.D.         |
| butyl benzyl phthalate (BBP)    |                                                                        | 50 | N.D.         |
| diisobutyl phthalate (DIBP)     |                                                                        | 50 | N.D.         |
| di-isononyl phthalate (DINP)    |                                                                        | 50 | N.D.         |
| Di-n-hexyl Phthalate (DnHP)     |                                                                        | 50 | N.D.         |
| di-iso-decyl phthalate (DIDP)   |                                                                        | 50 | N.D.         |
| Di-n-octyl Phthalate (DNOP)     |                                                                        | 50 | N.D.         |

**Halogen, Unit : mg/kg**

| Test Conducted | Test Method                                            | RL | Test Results |
|----------------|--------------------------------------------------------|----|--------------|
| 1              |                                                        |    |              |
| Bromine (Br)   | IEC 62321-3-2:2020 & KS M 0180:2009 determined by C-IC | 30 | N.D.         |
| Chlorine (Cl)  |                                                        | 30 | N.D.         |
| Fluorine (F)   |                                                        | 30 | N.D.         |

Sulfur (S), Unit : mg/kg

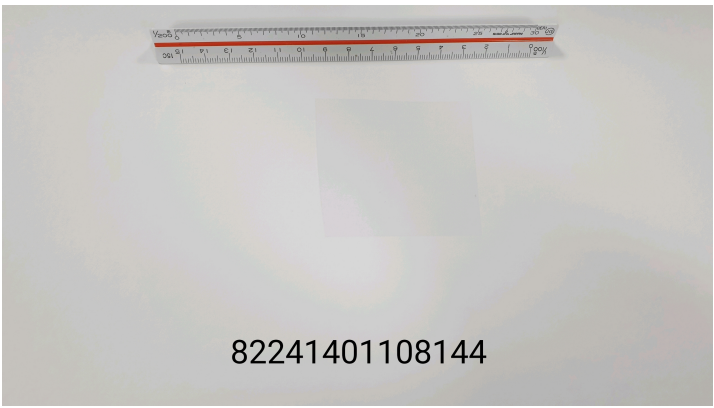
| Test Conducted | Test Method                                            | RL | Test Results |
|----------------|--------------------------------------------------------|----|--------------|
| 1              |                                                        |    |              |
| Sulfur (S)     | IEC 62321-3-2:2020 & KS M 0180:2009 determined by C-IC | 30 | N.D.         |

Heavy metal, Unit : mg/kg

| Test Conducted | Test Method                                           | RL | Test Results |
|----------------|-------------------------------------------------------|----|--------------|
| 1              |                                                       |    |              |
| Antimony (Sb)  | Reference to EPA 3052:1996 determined by ICP-OES, AAS | 5  | N.D.         |
| Beryllium (Be) |                                                       | 5  | N.D.         |

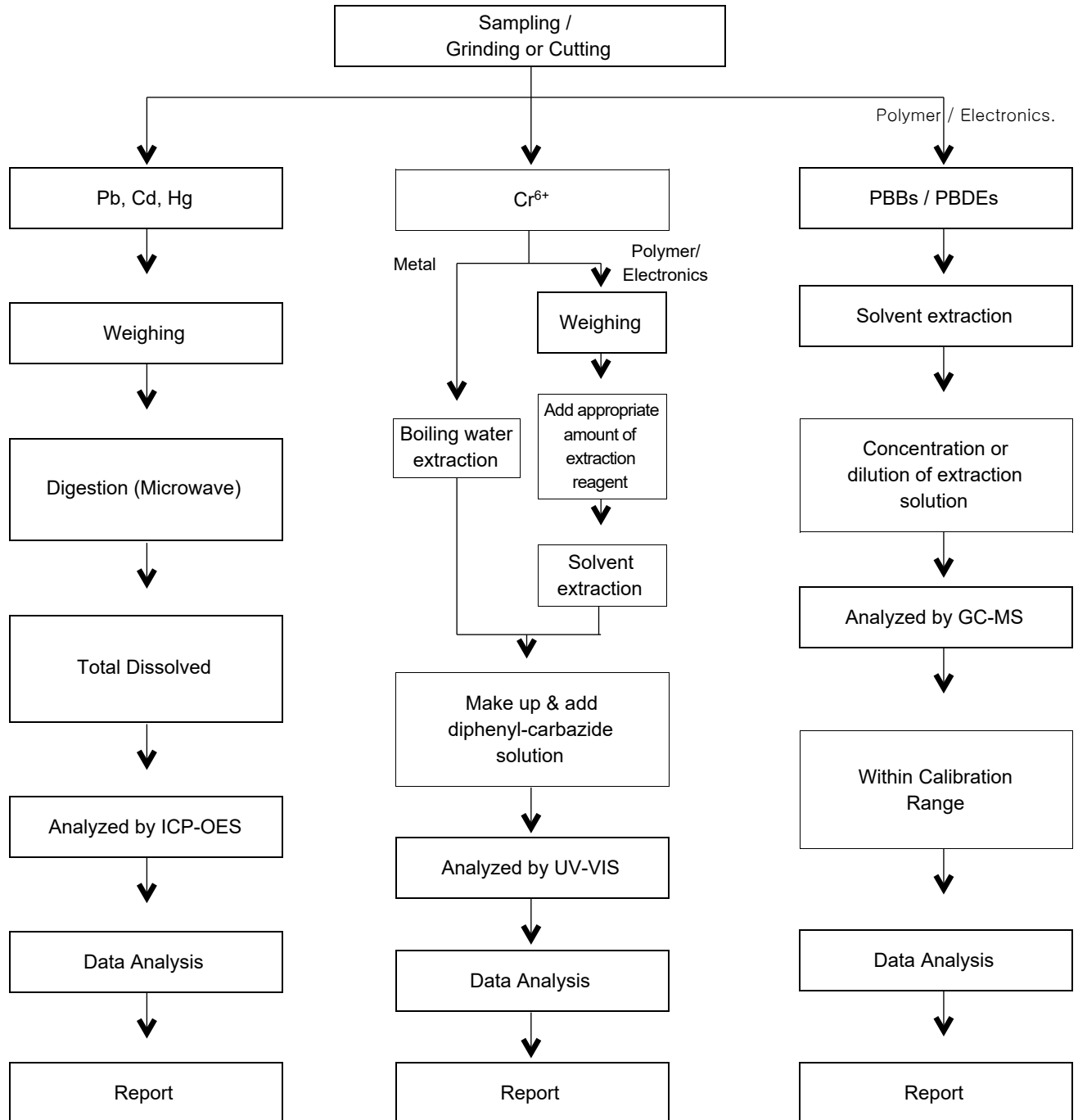
Photo of the submitted sample(s)

Sample No.1



# Flow Chart

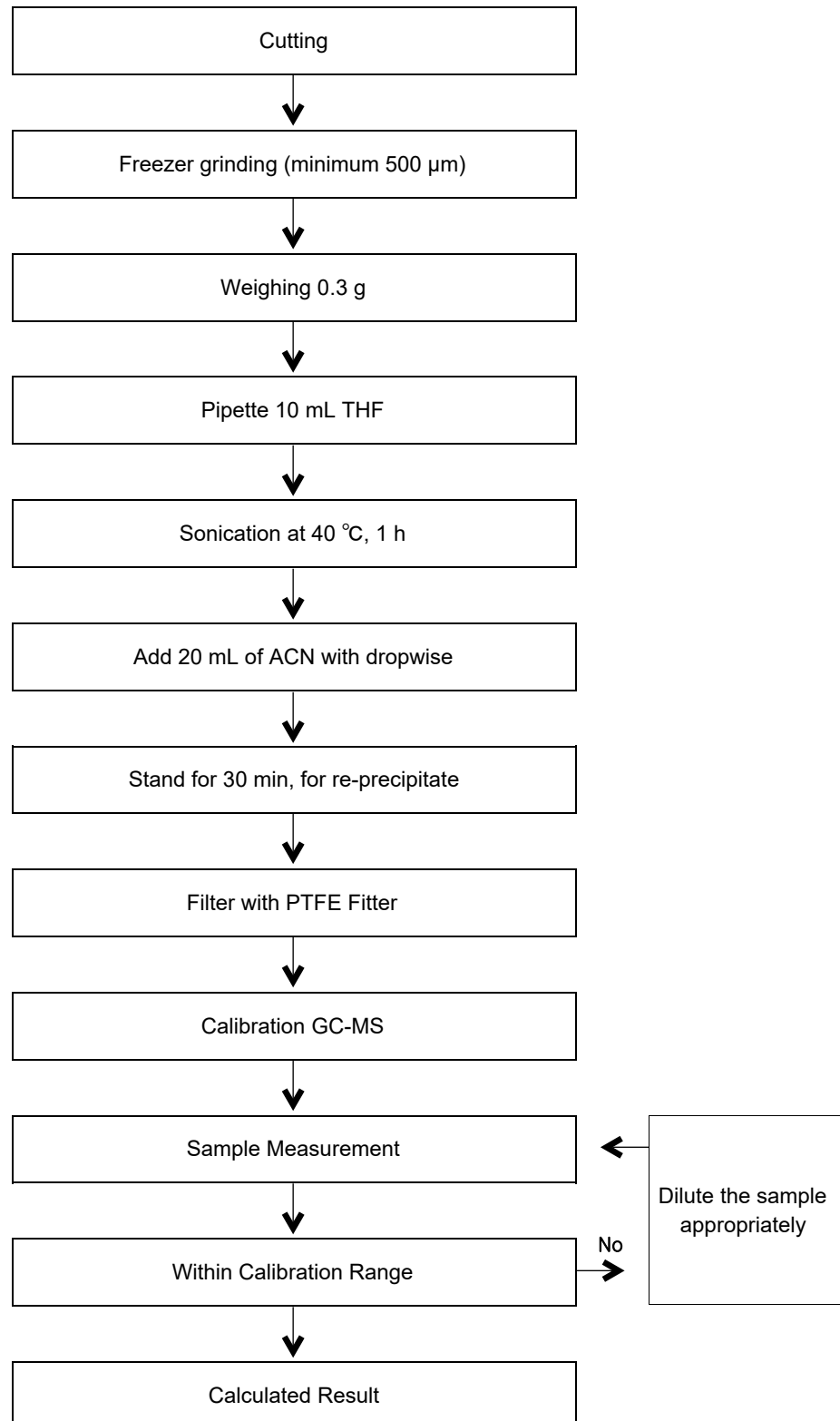
## RoHS(Pb, Hg, Cd, Cr<sup>6+</sup>, PBBs/PBDEs)



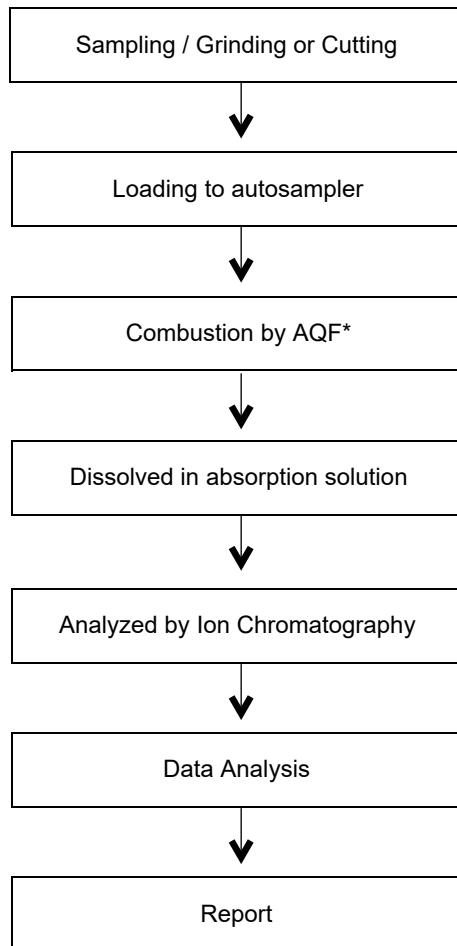
| Material    | Digestion Acid                                                                                    |
|-------------|---------------------------------------------------------------------------------------------------|
| Polymers    | HNO <sub>3</sub> , HCl, HF, H <sub>2</sub> O <sub>2</sub> , H <sub>2</sub> SO <sub>4</sub> , etc. |
| Metals      | HNO <sub>3</sub> , HCl                                                                            |
| Electronics | HNO <sub>3</sub> , HCl, HF, H <sub>2</sub> O <sub>2</sub> , H <sub>2</sub> SO <sub>4</sub> , etc. |

 Flow Chart

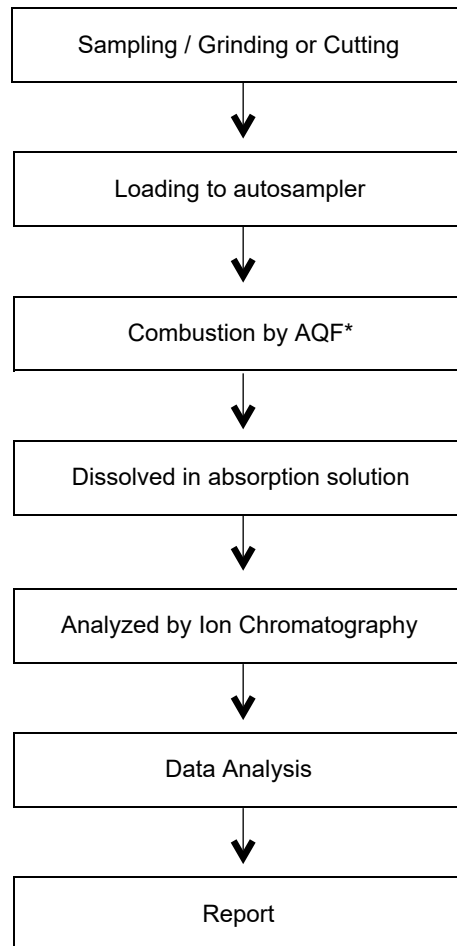
## Phthalates



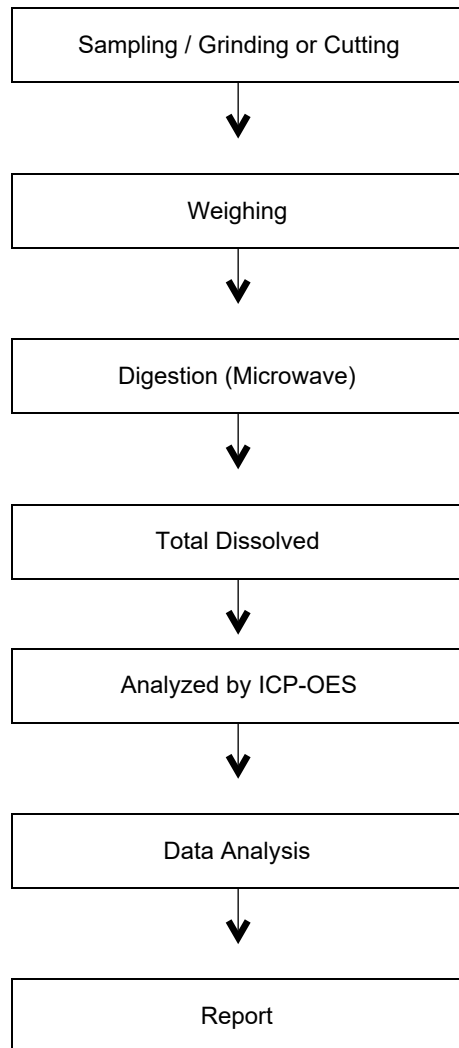


**Flow Chart****Halogen**

\*AQF : Automated Quick Furnace

**Flow Chart****Sulfur**

\*AQF : Automated Quick Furnace

 **Flow Chart****Heavy metal**

| Material    | Digestion Acid                                                                                    |
|-------------|---------------------------------------------------------------------------------------------------|
| Polymers    | HNO <sub>3</sub> , HCl, HF, H <sub>2</sub> O <sub>2</sub> , H <sub>2</sub> SO <sub>4</sub> , etc. |
| Metals      | HNO <sub>3</sub> , HCl                                                                            |
| Electronics | HNO <sub>3</sub> , HCl, HF, H <sub>2</sub> O <sub>2</sub> , H <sub>2</sub> SO <sub>4</sub> , etc. |