# TEST REPORT

KOTITI No. 8221-1401-106282

Applicant Avery Dennison Korea

Date In 2021. 12. 20. Date Out 2022. 01. 03.

Sample Description	S692D
Sample Quantity	One (1) Sample(s)
Buyer	N/S
Item Number	S692D
Material	Adhesive
Testing Period	2021. 12. 20. ~ 2022. 01. 03.
Test Result	For further details, please refer to the following page(s).

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

Researcher by			Technical	Manag	er			
Affirmation	Name	:	Jeong taek Kim	M	Name	:	Hae sung Kim	haresung





Contact Information for technical questions and general inquiries.

Primary Contact: Yun jae Lee T (822)3451-7116 E yjlee@kr.kotiti-global.com ·Back-up: Jung hyun Lee T (822)3451-7113 E jhlee@kr.kotiti-global.com

111, Sagimakgol-ro, Jungwon-gu, Seongnam-si, Kyeonggi-do, Korea T (822)3451-7183 F (822)3451-7179 W www.kotiti-global.com

- 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.01)

  KOTITI

<sup>\*</sup> Negative : Not Detected, Positive : Detected

Tested Sample List					
Sample No.	Sample Description	Item No.	Material		
1	S692D	S692D	Adhesive		



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

Test Conducted	Test Method	RL	Test Results
		<u> </u>	1
Lead (Pb)	IEC 62321-5:2013	5	N.D.
Cadmium (Cd)	(Acid digestion and determined by ICP-OES)	2	N.D.
Mercury (Hg)	IEC 62321-4:2013 (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		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	JEO 00004 0:0045	-	N.D.
* Polybrominated Diphenyl Ethers(PBDEs)	IEC 62321-6:2015 (Solvent extraction and determined by		
Bromodiphenyl ethers	GC-MS)	5	N.D.
Dibromodiphenyl ethers		5	N.D.
Tribromodiphenyl ethers		5	N.D.
Tetrabromodiphenyl ethers		5	N.D.
Pentabromodiphenyl ethers		5	N.D.
Hexabromodiphenyl ethers		5	N.D.
Heptabromodiphenyl ethers		5	N.D.
Octabromodiphenyl ethers		5	N.D.
Nonabromodiphenyl ethers		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)		50	N.D.
di(ethylhexyl) phthalate (DEHP)		50	N.D.
butyl benzyl phthalate (BBP)		50	N.D.
diisobutyl phthalate (DIBP)		50	N.D.
1,2-benzenedicarboxylic acid, di-C7-11 branched and linear alkyl esters (DHNUP)		50	N.D.
diisoheptyl phthalate (DIHP)		50	N.D.
Bis(2-methoxyethyl) phthalate (BMP)		50	N.D.
Hexahydromethylphthalic anhydride [1], Hexahydro-4-methylphthalic anhydride [2], Hexahydro-1-methylphthalic anhydride [3], Hexahydro-3-methylphthalic anhydride [4] [The individual isomers [2], [3] and [4] (including their cis- and transstereo isomeric forms) and all possible combinations of the isomers [1] are covered by this entry]	IEC 62321-8:2017	50	N.D.
diisopentyl phthalate (DIPP)	(Solvent extraction and determined by GC-MS)	50	N.D.
di-n-pentyl phthalate (DnPP)		50	N.D.
N-pentyl-isopentyl phthalate (PIPP)		50	N.D.
di-n-hexyl phthalate (DnHP)		50	N.D.
1.2-Benzenedicarboxylic acid, dihexyl ester, branched and linear		50	N.D.
1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate		50	N.D.
dicyclohexyl phthalate (DCHP)		50	N.D.
di-isononyl phthalate (DINP)		50	N.D.
di-iso-decyl phthalate (DIDP)		50	N.D.
di-n-octyl phthalate (DNOP)		50	N.D.
dimethyl phthalate (DMP)		50	N.D.
diethyl phthalate (DEP)		50	N.D.
1,2-Benzenedicarboxylic acid, dipentylester, branched and linear (DPP)		50	N.D.



## Halogen, Unit: mg/kg

Test Conducted	Test Method	RL	Test Results
			1
Chlorine (CI)	IEC 62321-3-2:2020 & KS M 0180:2009	30	N.D.
Bromine (Br)	determined by C-IC	30	72



# Sulfur, Unit: mg/kg

Test Conducted	Test Method	RL	Test Results
			1
Sulfur (S)	IEC 62321-3-2:2020 & KS M 0180:2009	30	1 896
	determined by C-IC	50	1 330



## Heavy metal, Unit: mg/kg

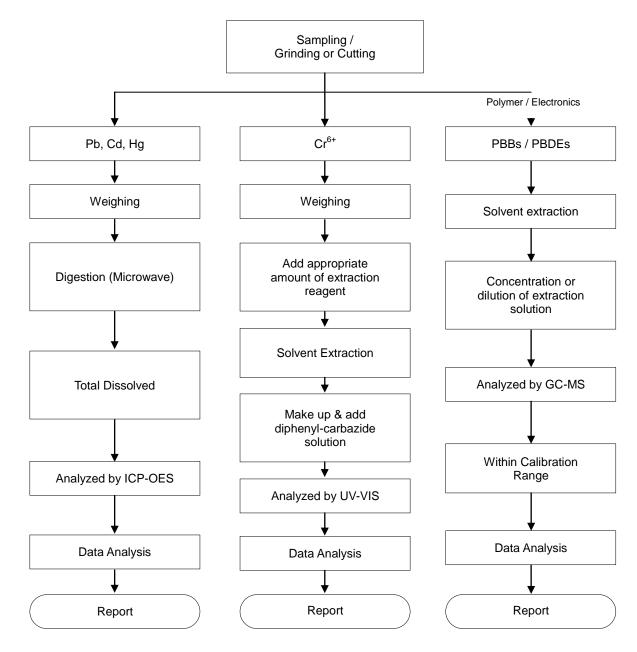
Test Conducted	Test Method	RL	Test Results
			1
Antimony (Sb)	Reference to EPA 3052:1996 determined by	5	N.D.
Beryllium (Be)	ICP-OES	5	N.D.

#### Photo of the submitted sample(s)



\* Remark : The result(s) shown is/are of the total weight of dried sample.

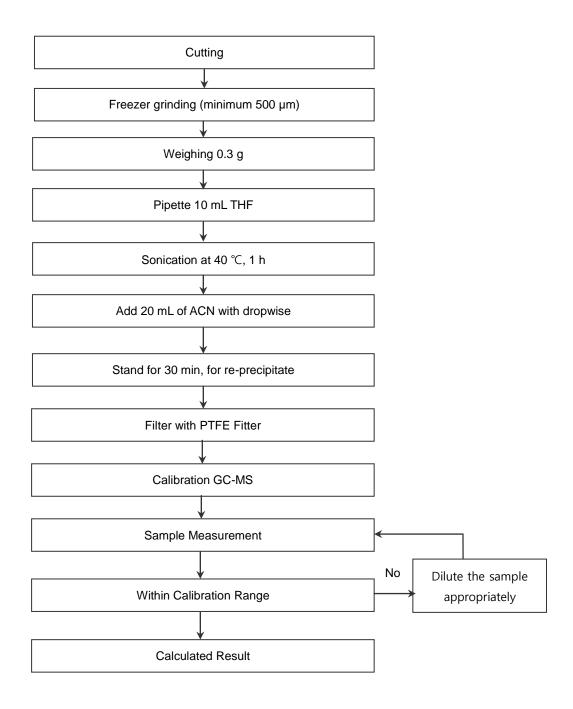
#### **RoHS**



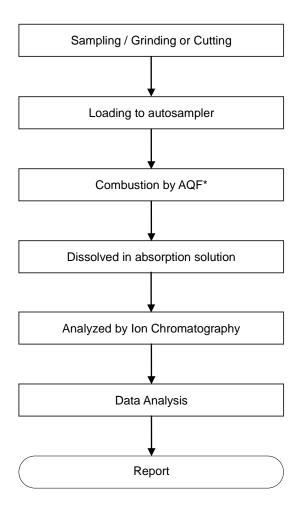
Material	Digestion Acid	
Polymers	HNO <sub>3</sub> , HCI, HF, H <sub>2</sub> O <sub>2</sub> , H <sub>2</sub> SO <sub>4</sub> , etc.	
Metals	HNO <sub>3</sub> , HCI	
Electronics	HNO <sub>3</sub> , HCI, HF, H <sub>2</sub> O <sub>2</sub> , H <sub>2</sub> SO <sub>4</sub> , etc.	



#### **Phthalates**

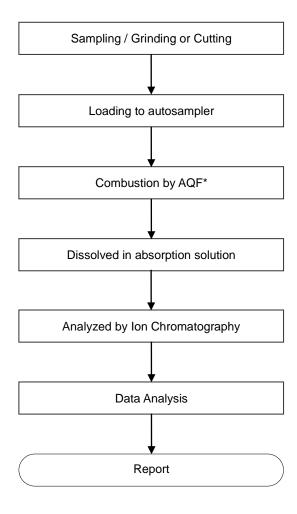


#### Halogen



\*AQF: Automated Quick Furnace

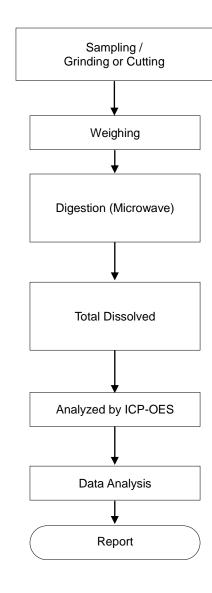
#### **Sulfur**



\*AQF : Automated Quick Furnace



#### **Heavy metal**



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