

TEST REPORT



NUMBER : DELH22006562 DATE: : 31ST MAY, 2022



ORIGINAL SAMPLE

Intertek India Pvt. Ltd.

290, Udyog Vihar, Phase-II, Gurgaon, Haryana –122016. Registered Office : E-20, Block B-1, Mohan Co-Operative Industrial Area, Mathura Road, New Delhi -110044. Tel: 0124-4503400, Fax: 0124-4303592 www.Intertek.com







ULR - TC566322422006562F

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APPLICANT: VISHAL PAPER MILLS PVT. LTD. SANGRUR ROAD, MALERKOTLA- 148023

ATTN: Ms. FARHEEN

SAMPLE DESCRIPTION : THE SUBMITTED SAMPLE SAID TO BE – EMPEROR GREY

TESTED COMPONENT: [1] EMPEROR GREY

TEST PERFORMANCE DATE BUYER'S NAME BUYING AGENT/ CONTACT ARCTICLE/REF NO GRADE	 25TH MAY, 2022 26TH MAY, 2022 TO 30TH MAY, 2022 GREY GREY
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TESTS CONDUCTED: AS PER THE REQUEST BY THE APPLICANT. RoHS-10 FOR FURTHER DETAILS PLEASE REFER TO THE ENCLOSED PAGE (S).

STANDARD	RESULT
(1) (A) ROHS DIRECTIVE (2011/65/EU) RESTRICTION OF THE USE OF CERTAIN HAZARDOUS SUBSTANCES IN ELECTRICAL AND ELECTRONIC EQUIPMENT	PASS
(2) ROHS DIRECTIVE (2011/65/EU) AND AMENDMENT COMMISSION DELEGATED DIRECTIVE (EU) 2015/863 WITH EFFECTIVE FROM 22 JULY 2019 - PHTHALATE CONTENT	PASS

AUTHORIZED BY FOR INTERTEK INDIA PVT. LTD.

Sardhana

KAMAL SARDHANA ASST. MANAGER - HARDLINE

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Test Result Summary:

Test Item	Unit	Test Method	Result	RL
			(1)	
Heavy Metal		•		•
Cadmium (Cd) Content	ppm	With reference to IEC 62321-5: 2013, by microwave or acid digestion and determined by ICP- OES.	ND	5
Lead (Pb) Content	ppm	With reference to IEC 62321-5: 2013, by microwave or acid digestion and determined by ICP- OES.	22	5
Mercury (Hg) Content	ppm	With reference to IEC 62321- 4:2013+AMD1:2017, by microwave or acid digestion and determined by ICP-OES.	ND	5
Chromium VI (Cr6+) Content	ppm	With reference to IEC 62321-7-2: 2017, organic solvent was used to dissolve or swell sample matrix, followed by alkaline digestion and determined by UV-Vis Spectrophotometer.	ND	5
Chromium VI (Cr6+) Content @	μg/ cm2	With reference to IEC 62321-7-1: 2015, by boiling water extraction and determined by UV-Vis Spectrophotometer or visual observation.		0.10

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Test Item	Unit	Test Method	Result	RL
Test Item	Unit	Test Method	(1)	KL .
Polybrominated Biphenyls (PBBs)				
Monobrominated Biphenyls (MonoBB)	ppm		ND	5
Dibrominated Biphenyls (DiBB)	ppm		ND	5
Tribrominated Biphenyls (TriBB)	ppm	With reference to IEC 62321-6:	ND	5
Tetrabrominated Biphenyls (TetraBB)	ppm	2015, by solvent extraction and	ND	5
Pentabrominated Biphenyls (PentaBB)	ppm	determined by GC-MS and further HPLC-DAD confirmation when	ND	5
Hexabrominated Biphenyls (HexaBB)	ppm		ND	5
Heptabrominated Biphenyls (HeptaBB)	ppm	necessary.	ND	5
Octabrominated Biphenyls (OctaBB)	ppm		ND	5
Nonabrominated Biphenyls (NonaBB)	ppm		ND	5
Decabrominated Biphenyl (DecaBB)	ppm		ND	5
Polybrominated Diphenyl Ethers (PBD	Es)			
Monobrominated Diphenyl Ethers (MonoBDE)	ppm		ND	5
Dibrominated Diphenyl Ethers (DiBDE)	ppm		ND	5
Tribrominated Diphenyl Ethers (TriBDE)	ppm		ND	5
Tetrabrominated Diphenyl Ethers (TetraBDE)	ppm		ND	5
Pentabrominated Diphenyl Ethers (PentaBDE)	ppm	With reference to IEC 62321-6: 2015, by solvent extraction and	ND	5
Hexabrominated Diphenyl Ethers (HexaBDE)	ppm	determined by GC-MS and further HPLC-DAD confirmation when necessary.	ND	5
Heptabrominated Diphenyl Ethers (HeptaBDE)	ppm		ND	5
Octabrominated Diphenyl Ethers (OctaBDE)	ppm		ND	5
Nonabrominated Diphenyl Ethers (NonaBDE)	ppm		ND	5
Decabrominated Diphenyl Ether (DecaBDE)	ppm		ND	5

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Test Item	Unit	Test Method	Result	RL
rest riem	ome	Test Method	(1)	κ <u>υ</u>
Phthalates	-			
Di(2-ethylhexyl) Phthalate (DEHP)	ppm		ND	50
Dibutyl Phthalate (DBP)	ppm	With reference to IEC 62321-	ND	50
Benzyl Butyl Phthalate (BBP)	ppm	8:2017, by solvent extraction and determined by GC-MS.	ND	50
Di isobutyl Phthalate (DIBP)	ppm		ND	50

Remarks: ppm = Parts per million based on weight of tested sample = mg/kg

ND = Not detected

RL = Reporting limit, quantitation limit of analyte in sample

@ The explanation of Chromium VI (Cr6+) analysis results

Colorimetric result	Qualitative Result	Explanation
< 0.10 µg/cm2		The result of sample is negative for Cr(VI). The sample coating is considered a non- Cr(VI) based coating.
≥ 0.10 µg/cm2 and ≤ 0.13 µg/cm2	Inconclusive	The result of sample is considered to be inconclusive. If addition samples are available, recommend to add trials and get the average result for the final determination.
> 0.13 µg/cm2	Positive	The result of sample is positive for Cr(VI). The sample coating is considered to contain Cr(VI). A result expresses as Positive, while not an actual value, which indicates a visual observation was used.

RoHS Limit

Restricted Substances	Limits
Cadmium (Cd) content	0.01% (100ppm)
Lead (Pb) content	0.1% (1000ppm)
Mercury (Hg) content	0.1% (1000ppm)
Chromium VI (Cr6+) content	0.1% (1000ppm)
Polybrominated Biphenyls (PBBs)	0.1% (1000ppm)
Polybrominated Diphenyl Ethers (PBDEs)	0.1% (1000ppm)
Di(2-ethylhexyl) Phthalate (DEHP)	0.1% (1000ppm)
Dibutyl Phthalate (DBP)	0.1% (1000ppm)
Benzyl Butyl Phthalate (BBP)	0.1% (1000ppm)
Di isobutyl Phthalate (DIBP)	0.1% (1000ppm)

The limits were quoted from Annex II of 2011/65/EU and Amendment (EU) 2015/863 for homogeneous material.

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Measurement Flowchart:

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Test for Cd/Pb/Hg/Chromium (VI)/PBBs/PBDEs Content Reference Standard : Cd/Pb: IEC 62321-5:2013; Hg: IEC 62321-4:2013+AMD1:2017; Chromium (VI): IEC 62321-7-1:2015 (boiling water extraction); Chromium (VI): IEC 62321-7-2:2017 (solvent and alkaline extraction); PBBs/PBDEs: IEC 62321-6:2015 Sampling Cd/Pb/Hg PBBs/PBDEs Cr⁶⁺ Polymers / Metal Electronics For different material, Weigh sample and add digest the sample with organic solvent appropriate acid*1 50cm² sample, boiling Weigh a sample Insoluble/ water extraction unknown polymers By solvent extraction Soluble polymers and electronics Confirm the tested samples are totally dissolved Cool and filter the extract Add NMP, ultrasonic Add toluene and extraction digestion solution Concentrate the extract and make up with organic Make up with deionized solvent water Make up with deionized Alkaline digestion Heat sample in a water and add diphenylmicrowave oven carbazide solution Analyzed by GC-MS Analyzed by ICP-OES Metal Visual observation*2 Reaction with DCP Take aqueous phase for DCP reaction Make up with D.I. water Analyzed by UV-VIS Pag of 7

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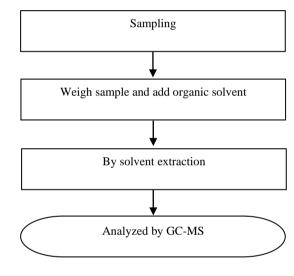
Remarks: *1: List

t of Appropriate .	Acid :
Material	Acid Added for Digestion
Polymers	HNO3,HC1,HF,H2O2,H3BO3
Metals	HNO3,HC1,HF
Electronics	HNO3,HC1,H2O2,HBF4

*2: If sample solution is significantly more intense than 0.13 µg/cm2 equivalent comparison standard, Chromium VI would be determined as detected, the result of visual observation is positive.

Measurement Flowchart:

Test for Phthalates Content Reference Method: IEC 62321-8:2017



END OF TEST REPORT

This report is made solely on the basis of your instructions and/or information and materials supplied by you. It is not intended to be a recommendation for any particular course of action Intertek does not accept a duty of care or any other responsibility to any person other than the Client in respect of this report and only accepts liability to the Client insofar as is expressly contained in the terms and conditions governing Intertek's provision of services to you. Intertek makes no warranties or representations either express or implied with respect to this report save as provided for in those terms and conditions. We have aimed to conduct the Review on a diligent and careful basis and we do not accept any liability to you for any loss arising out of or in connection with this report, in contract, tort, by statute or otherwise, except in the event of our gross negligence or wilful misconduct.

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