

		Costco Smart Screening Protocol for Packaging Material-V38							
Client Code: Start Date:	Technician: Finish Date:	MTS Report Number:  Result Reviewed by:							
Scope: This protocol should be	used for these item types; packaging food pack	aging,disposable products like garbage bags, plastic cups, disposable containers, zipl	ock bags etc	<b>.</b>		_			
Important Note: For D28 Seasonal Decoration ar	nd Costumes Packaging Material:	bmitted for document review during Production Testing.				_			
TEST CODE	TESTED PROPERTY	REQUIREMENT	RES	SULTS	COMMENTS	_			
ANALYTICAL			Pass	Fail		_			
Supplemental Protocol						_			
Food Packaging material Smart Screening Protocol	Food Packaging and Labeling Material	[For Food packaging material only]  In addition to the following Packaging Material protocol, also shall comply the additional requirement in Supplemental Food Packaging Protocol							
US, CN, EU, JP, KR, TW SP-952	PFAS Restrictions	Must comply with requirements.				_			
Packaging Component Test						-			
UK, France, Spain, Iceland,Sweden	Substances of Very High Concern (SVHC) content								
EC / 1907 / 2006	Applicable to articles including accessible and inaccessible materials.	Shall not exceed 1000 mg/kg (0.1% by weight) in article or material.							
GC/MS; LC/MS; ICP; UV-Vis; XRF		Note: - Refer to Candidate list of EC No. 1907/2006 for list of SVHC to be tested.  Reference: https://echa.europa.eu/candidate-list-table							
ISO 21084 /ISO 18254-1 / ISO	Alkylphenol & Alkylphenol Ethoxylates	Limit:				-			
18218-1 / Solvent extraction, LC- MS or LC-MS-MS analysis	Applicable to Natural fibers, Synthetic fibers, Blend fibers, Coating, Dyes&Prints, Natural Materials (including paper and cardboard), Polymers, Plastics, Foams, Natural Rubber & Synthetic Rubber, Clue, Natural leather, Synthetic coated	Sum of alkylphenois (NP/OP): 100 mg/kg Sum of Alkylphenoi Ethoxylates (NPEO/OPEO): 100 mg/kg							
EN ISO 14362-1 (Textiles) / EN	Azo Dyes	Limit: 20 mg/kg (each)				-			
ISO 17234-1 (leather) / EN ISO 14362-3 (pAAB textiles) / EN SO 17234-2 (pAAB leather)	(Detailed lists in 'Reference Chemical List') For dyed/colored materials (non-white) only. Applicable to Natural fibers, Synthetic fibers, Blend fibers, Natural materials, Natural leather, Synthetic coated fabric (Print only tested together with base material if it cannot be separated).								
Leather: EN ISO 11936/ All other materials: Solvent extraction by	Bisphenols	Limit: Receipt paper:BPA: 1 ppm				-			
interests. Sowerlie deudon by THF, analysis with LC-MS. Note for textiles: For precipitation, draw the extract to another container and add methanol or acetonitrile. This keeps the extraction process consistent.	Applicable to Blend fibers, Synthetic fibers, Coatings, Dyes & Prints, Natural materials (including paper and cardboard), Plastic Tapes, Polycarbonate, Recycled Plastic Cases, Natural Leather, Synthetic coated fabric	Notes pages 1974. 1 ppin Ofther packaging:1000 ppm each (Bisphenol-A (BPA), Bisphenol-S (BPS), Bisphenol-B (BPB), Bisphenol-F (BPF) In preparation for forthcoming restrictions, significantly lower levels of bisphenols should be achievable, e.g., in polyamide, over time or better alternatives should be substituted if possible.  US:  Washington Safer Products Restrictions and Reporting WAC 173-337-114 (3)  Limit: Shall not contain intentionally added bisphenols.  Applicable to thermal paper.  Note Ecology presumes the detection of bisphenol concentrations above 200 ppm indicate intentionally added bisphenols.							
		Effective Date: January 1, 2026  California AB 2244  Limit: Bans use of thermal receipts containing BPA and BPS.  Effective Date: January 1, 2025 (RPA)							
ASTM D4275	Dibutylhydroxytoluene (BHT) Applicable to Polybags	Limit 25 mg/kg							
ISO 16186	Dimethyl Fumarate (DMFu) Applicable to Silica gel packets,Foam packaging,Natural leather	Limit 0.1 mg/kg							
	Formaldehyde  Applicable to Natural fibers, Synthetic fibers, Blend fibers, Coatings Dyes8Prints,Natural materials (including paper and cardboard),Rubber,Glue,Natural leather, Synthetic coated fabric  Not applicable to Composite Wood	Limit: 150 mg/kg				_			
CEN ISO/TS 16179 /EN ISO 22744-1/ Solvent extraction, GC- MS analysis	Plastics, Foams, Natural Rubber & Synthetic Rubber, Glue, Natural leather, Synthetic coated fabric, Metallic glitter, Polyurethane products and Heat transfer material.	Limit: Tributylin (TBT): 0.5 mg/kg Triphenylin (TBT): 0.5 mg/kg Dibutylin (DBT): 1 mg/kg Dibutylin (DBT): 1 mg/kg Dibutylin (DBT): 1 mg/kg Monocctylin (MDT): 1 mg/kg Monocctylin (MDT): 1 mg/kg Trimetrylin (TMT): 1 mg/kg Trimetrylin (TMT): 1 mg/kg Trimetrylin (TMT): 1 mg/kg Triphotylin (TPT): 1 mg/kg Triphotylin (TPT): 1 mg/kg Diphenylin (DMT): 1 mg/kg Diphenylin (DMT): 1 mg/kg Diphenylin (DMT): 1 mg/kg Monophenylin (MMT): 1 mg/kg Monophenylin (MMT): 1 mg/kg Tetrabutylin (TetT): 1 mg/kg Tetrabutylin (TetT): 1 mg/kg Tetrabutylin (TetT): 1 mg/kg							
CPSC-CH-C1001-09.4 / ISO 14389 Solvent extraction, GC- MS analysis	Phthalates (Detailed list in 'Reference Chemical List') (Applicable to high risk packaging materials including coating, plastic, printed textile, PU/Synthetic leather, composite wood, glue and adhesive)	TPCH Limit: 100 mg/kg (sum) (Costco requirement)							

Latest revision: March 5, 2025



Client Code:		Technician:	stco Smart So	creening Protoc	ol for Packaging Material-V38 MTS Report Number:	5			
Start Date:		Finish Date:			Result Reviewed by:				
	used for these item t	ypes: packaging,food pack	aging,disposable pro	oducts like garbage bag	gs, plastic cups, disposable containers, zipl	ock bags et	c.		
Important Note: GC-FID/MS or	Mineral oil aromatic hy	ydrocarbons (MOAH) and	Decree of April 13, 2	022, specifying the subst	ances contained in mineral oils whose		1		
HPLC-GC-FID analysis	mineral oil saturated h content	nydrocarbons (MOSH)	use is prohibited on p intended for the publi	ackaging and for printing					
	(Applicable to ink mat packaging materials) (For French market o	erials that will be applied to	By January 1, 2023: MOAH consisting of ≤1.0%	1 to 7 aromatic rings:					
			By January 1, 2025: 1) MOAH consisting of 1 to 7 aromatic rings: 1. ≤ 0.1% and						
			2. ≤ 1 ppm MOAH compounds containing 3 to 7 aromatic rings 2) MOSH consisting of 16 to 35 carbon atoms:						
			≤ 0.1% Note:	o. 10 to 00 0a ball atomo	-				
Analysis is based on	French Decree hazard	dous substances in waste-	- In lieu of testing, gu	arantee letter can be sub 9-1 on providing consume	mitted. ers with information about the presence of				
GC, LC, IC, ICP, with various detection techniques and UV	generating products		hazardous substance substances.	es in waste-generating pro	oducts ≤ 0.1% for each of the hazardous				
	Test for "French mark	ole and inaccessible materials set only".		Decree No.2021-1285 of e-generating products:	October 2021, there are two lists of hazardous				
				high concern on the Can	didate List under Regulation (EC)				
			Reference: https://ed	cha.europa.eu/candidate-	list-table of concern as the Candidate List above that				
			are established by (n	ational) legislation after co	onsulting the National Agency for Food, (l'Agence nationale de sécurité sanitaire de				
			l'alimentation, de l'en	vironnement et du travail,					
			<ol> <li>Diisooctyl phthalate</li> <li>1,3-Benzenediol (C</li> </ol>	e (DIOP) (CAS No.:2755 AS No.:108-46-3)	4-26-3)				
Analysis is been d	Fb D-				oliers who place products containing ainst Waste and the Circular Economy' Article				
Analysis is based on GC, LC, IC, ICP, with various detection techniques and UV	(Detailed lists in 'Refe	rine disruptors in products rence Chemical List')		lisclosure on the presenc	ainst waste and the Circular Economy Article e of endocrine disruptors (ED) in products ≤				
detection techniques and ov	Applicable to accessit materials.	ble and inaccessible	disruptors.	endocrine					
	Test for "French mark	xet only".	List of substances wi 5232-5	ith endocrine disrupting p	roperties are mentioned in I and II of Article L.				
					3, suppliers who place products containing an more than 0.1% on the market are obliged to				
			disclose their informa public.	ation on an electronic plati	form (Scan4Chem) that is available to the				
EN ISO 17881-1	HBCDD			recycled EPS packaging other materials)	foam)				
	Applies to all articles i foam, plastic, coating,	ncluding EPS packaging , textile.	3 3 (	,					
ISO 18219-1 (Leather) ISO 22818 (Textile and others)	SCCP		Limit: 0.15%						
	Applicable to high risk packaging materials including coating, plastic, printed textile, PU/ Synthetic leather, composite wood, glue and								
EN 17134-2	PCP Applicable to high risk including coating, pap leather.	packaging materials er, cardboard, textile and	Limit: 5 mg/kg						
EN 17137, GC-MS analysis	Hexachlorobenzene (I	HCB)	Costco: 10 mg/kg						
	For UK, France, Spair	n, Iceland, Sweden	EU POPs, UK POPs:						
	Applicable to substances, mixtures and articles, including pesticides, chlorinated solvents, inks, coatings, paints and toners, wood application, textile application and plastics		HCB: 10 mg/kg  LoG can be accepted	d in lieu of testing.					
In-house method, GC-MS analysis	Methylene Chloride content (CAS no. 75-09-2)				rohibited in manufacturing, processing, chloride for all consumer uses and most				
	Applicable materials (accessible and inaccessible): plastics, leathers, coatings, coated metals, adhesives/glues, solvents			int stripper, degreaser an	d solvent, and an ingredient in adhesives and				
		Exemption:							
				Those important to national security and the economy, including the production of hydrofluorocarbon-32 refrigerant, and lithium-ion battery separators for electric vehicles.     There is a 10-year limited exemption for emergency use by NASAif no technically or					
				Interes a 10-year limited exemption for emergency use by NASAif no technically or economically feasible alternative is available.     There is a 10-year limited exemption for civilian aviation.					
			Effective date: July 8						
				Under the final rule:					
			2. Manufacturers and	d importers have until May	nust be phased out by February 3, 2025. y 5, 2025 to cease production and importation.				
			<ol> <li>Non-retail distributors have until January 28, 2026 to cease distribution.</li> <li>If methylene chloride is used in a process, processors have 15 months, until August 1, 2025, to cease use. Industrial and commercial (as opposed to retail) users have until April</li> </ol>						
			28, 2026, to cease us	se.					
All packaging materials and	l components use	d on an item sold in the	US / EU / UK will I	be tested to TPCH / F	77 Public Law H.P. 1043 - L.D. 1433) (F PPWR,Regulation (EU) 2025/40 / SI 201	5/1640/ Sta	ate of Maine		
1433. These laws set limits	for the amount of t	oxic heavy metals that a	are present in oute	er and inner packagi	ng materials and components such as	color box	or color lab		
materials, wrapping papers, banding straps and inks. These regulations apply to everything tested for Costco Wholesale- apparel, home textiles and hard goods.  Costco Wholesale requires that the lab test high risk packaging materials including coatings,plastic, printed textile, metal, leather, PUSynthetic leather, composite wood, glue and adhesive. The lab can use up to 5 like components in one composite test. No more than a total of 5 composite test should be conducted (Like materials to be composited and each composite containing an equal weight of the 5 components). If result exceeds 100ppm, testing to be performed on each individual component within the composite and results will be reported per each individual component.									
ANALYTICAL METHOD: A weighted portion of the dried substrate material is digested with nitric acid for total metals content. After digestion, the sample is filtered and brought to a known volume, and then									
analyzed for the four metals using AA or ICP analysis.									
Packaging/ Materials/ Components	Submitted by Vendor? (Yes/No)  Selects Randomly Chosen indicate with an "X" which			LEAD	CADMIUM	MERCURY		METALS FOR EACH PACKAGING COMPONENT (SHOULD NOT	PCB (SHOULD NOT EXCEED 50 ppm) (Costco Requirement)
Master Carton								EXCEED 100 PPM)	
Ink used for printing of Master									
Carton - All Colors				1			1	Ì	



Costco Smart Screening Protocol for Packaging Material-V38  Client Code:										
Start Date: Finish Date: Result Reviewed by:										
Scope: This protocol should be	used for these item t	ypes: packaging,food packaging	g,disposable pro	ducts like garbage bag	s, plastic cups, disposable containers, zip	lock bags et	;.			
Important Note:										
Polybag										
Ink used for printing of Poly bag - All Colors										
Blister (Clamshell)										
Blister Card - All designs or styles										
Instruction Sheet										
Printed label for different designs or styles										
Adhesive tape for different styles and sizes										
Insert card for different designs or styles										
Tissue paper - All Colors										
Logo card for different designs or styles										
Window box with window sheet for different designs or styles										
Plastic screw holder for different color										
Hang tag										
Cable Tie  Plastic wire or metal wire (twist										
ties)										
Plastic (Banding Strap)										
Plastic Fastener used to tighen banding strap										
Natural materials										
Polymers, Plastics, Foams, Natural Rubber & Synthetic Rubber										
Metal										
Natural leather Artificial leather										
Other										
IMPORTANT NOTICE: Block	o rovious the Actua	I Producte against the unda	tod Boguiromo	nte/Pogulation Brio	r to testing and communicate with c	lionte if add	itional tost r	aguired. This protoc	col is the basis	
guidelines to follow and doe	es not replace the	content of the standard. (Fo	r Silverware ad	ditional test should	be included)	II auu	onur test I	oquireu. Tilis protot	Joi .J tile budit	
EXEMPTION REMARK:  1. YKK zippers are exempt from all testing, no CSS or analytical testing required.  2. Items submitted with an OEKO-TEX Certificate (OEKO-TEX Standard 100 or higher,STeP by OEKO-TEX, Detox To Zero by Oeko-Tex, Made in Green by OEKO-TEX,ECO PASSPORT by OEKO-TEX, MySTeP by OEKO-TEX, Hohenstein Institute /LEATHER STANDARD by OEKO-TEX) or Bluesign certification, or Cradle to Cradle certification or C2C material health certifications at silver level or higher or EPA Safer Choice certification, will exempt component(s) or the full item from Costco Smart Screening (CSS), PFAS and FR supplemental testing. Vendor should send the applicable approved certification(s) to the lab for confirmation when the BOM is sent, or at the time of sample selection. The testing lab should then review the certificate and verify validation and exempt certified components accordingly from CSS, PFAS and FR supplemental testing.										
3. Micro-Pak and Superdry brand desiccant packs are exempt from CSS testing (bag and desiccant material).  4. Nation a new Charming ITL SSI and Compare GrootTech packaging materials are exempt from CSS testing (bag and desiccant material).  4. Nation a new Charming ITL SSI and Compare GrootTech packaging materials are exempt from CSS testing (bag and desiccant material).  4. Nation a new Charming ITL SSI and Compare GrootTech packaging materials are exempt with a larged law and the packaging materials are exempt with a larged law and the packaging materials are exempt with a larged law and the packaging materials are exempt with a larged law and the packaging materials are exempt with a larged law and the packaging materials are exempt from CSS testing (bag and desiccant material).										
Note: It is the Vendor's responsibility to ensure that the products comply with all local laws, regulations and ordinances of Countries and States where products will be sold. A Pass Lab test result does not constitute a certification that a vendor's products meet all legal requirements. It is the vendor's responsibility to manufacture their items to comply with all applicable laws and in conformance with the purchase order terms and conditions.										
This is a list of the types of packaging components and the number of samples to be sent to MTS. To avoid delays, please be sure ALL packaging-related components are submitted, even if they are not on the list. Contact MTS for the required number of samples if the component is not on the list.										
	Master Carton   1 Pc     Pc									
Ink used for printing of Polybag - all colors Blister (Clamshell)					10 pcs 50 mL per color 10 pcs					
Blister Card - All designs or styles  Instruction Sheet					5 pcs each 3 pcs	5 pcs each 3 pcs				
Adhesive Tape for different styles and sizes   1 r.c   Insert card for different styles and sizes   16 r.c   Insert card for different designs or styles   16 r.c   Insert card for different designs or styles   17 r.c   Insert card					5 pcs each 1 roll each 16 pcs each					
Tissue paper - All Colors Window Box w/Sheet for different	Tissue paper - All Colors   3 pcs per color									
Hang Tag Cable Tie Plastic wire or Metal wire (Twist tie						5 pcs 10 pcs (App 50 gm		n length for one piece)		
Plastic Plastie (Banding Strap)	Plastic Plastie (Banding Strap)     5 feet       Plastic Fastener used to tighen banding straps.     12 pcs									

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