

## Annex B2 - Product environmental attributes Computers and computer monitors

The declaration may be published only when all rows and/or fields marked with \* are filled-in (n.a. for not applicable). Additional information regarding each item may be found under P15.

Brand *	HP	Logo		
Company name *	HP			
Contact information *	HP Sustainability and Compliance Center			
e-mail address	sustainability@hp.com			
Internet site *	http://www.hp.com/hpinfo/globalcitizenship/environment/			
Additional information				

The company declares (based on product specification or test results based obtained from sample testing), that the product conforms to the statements given in this declaration.

Type of product *	Thin Client
Commercial name *	HP Pro t550 Thin Client
Model number *	t550
Issue date *	12/12/2022
Intended market *	🛛 Global 🔀 Europe 🗌 Asia, Pacific & Japan 🗌 Americas 🗌 Other
Additional information	

This is an uncontrolled copy when in printed form. Please refer to the contact information for the latest version.

About Annex B2

Annex B2 reflects Product environmental attributes relevant for Computers and Computer Monitors. The following items from the ECMA-370 Main body are not shown in the template:

P4.1 – P4.3 Consumable materials

P9.1 TEC and Print speed

P10.2 - P10.3 Chemical emissions from printing products

P11.1 - P11.3 Consumable materials for printing products

Model number *	t550	Logo	
Issue date *	12/12/2022		

Product	Product environmental attributes - Legal requirements					
Item		Yes	No n.a.			
P1	Hazardous substances and preparations					
P1.1*	Products do comply with current European RoHS Directive. (See legal reference and NOTE B1)	$\square$				
P1.2*	Products do not contain Asbestos (see legal reference). Comment: Legal reference has no maximum concentration value.	$\boxtimes$				
P1.3*	Products do not contain Ozone Depleting Substances: Chlorofluorocarbons (CFC), hydrobromofluorocarbons (HBFC), hydrochlorofluorcarbons (HCFC), Halons, carbontetrachloride, 1,1,1- trichloroethane, methyl bromide (see legal reference). Comment: Legal reference has no maximum concentration values.					
P1.4*	Products do not contain more than; 0,005% polychlorinated biphenyl (PCB), 0,005% polychlorinated terphenyl (PCT) in preparations (see legal reference).	$\square$				
P1.5*	Products do not contain more than 0,1% short chain chloroparaffins (SCCP) with 10-13 carbon atoms in th chain containing at least 48% per mass of chlorine in the SCCP (see legal reference).	ne 🔀				
P1.6*	Parts with direct and prolonged skin contact do not release nickel in concentrations above 0,5 μg/cm <sup>2</sup> /wee (see legal reference). Comment: Max limit in legal reference when tested according to EN1811:2011-5.	k 🔀				
P1.7*	REACH Article 33 information about substances in articles is available at (add URL or mail contact): <u>REACH Article 33 Declarations (hp.com)</u>	$\boxtimes$				
P2	Batteries					
P2.1*	If the product contains a battery or an accumulator, the battery/accumulator is labeled with the disposal symbol. Information on proper disposal is provided in user manual. (See legal reference)					
P2.2*	Batteries or accumulators do not contain more than 0,0005% of mercury or 0,002% of cadmium. (See lega reference)	վ 🗌				
P2.3*	Batteries and accumulators are readily removable. (See legal reference)		$\square$			
P2.4*	Documentation includes the number of cycles the (secondary) battery can withstand. (See legal reference	) 🛛				
P2.5*	When internal batteries of a notebook computer cannot be "accessed and replaced by a nonprofessional user", the related text is present and legible on the external packaging (see legal reference)	$\square$				
P3	Conformity verification & Eco design (ErP)					
P3.1*	The product is CE-marked to show conformance with applicable legal requirements (see legal reference). The Declaration of Conformity can be requested at (add link or e-mail address): http://www8.hp.com/uk/en/certifications/technical/regulations-certificates.html Sustainability@hp.com/					
P3.2*	The product complies with the applicable Eco design requirements for energy-related products,	$\square$				
	(see legal reference).					
	Required information is;	$\boxtimes$				
	available at (add URL): HP Pro t550 Thin Client					
P5	Product packaging					
P5.1*	Packaging and packaging components do not contain more than 0,01% lead, mercury, cadmium and hexavalent chromium by weight of these together.	$\square$				
P5.2*	The packaging materials are marked with abbreviations and numbers indicating the nature of the material used (see legal reference).	s) 🔀				
P5.3*	The product packaging material is free from ozone depleting substances as specified in the Montreal Protocol (see legal reference). Comment: Legal reference has no maximum concentration values.					
P6	Treatment information					
P6.1*	Information for recyclers/treatment facilities is available (see legal reference).	$\boxtimes$				

NOTE B1 Restriction applies to the homogeneous material, unless other specified and expressed in weight %. Stating "Yes" means that the product is compliant with the mandatory requirements.

Model n	umber *	t550	Logo				
lssue da	nte *	12/12/2022					
Produc		mental attributes - Market requirements (See General NOTE GN below onmental conscious design	)	Re	quire	ment	met
ltem		tory to fill in. Additional information regarding each item may be found under P14.			Yes	No	n.a.
P7	Design						
P7.1*		mbly, recycling thave to be treated separately are easily separable					
P7.2*		haterials in covers/housing have no surface coating.					╞
P7.2 P7.3*		arts > 100 g consist of one material or of easily separable materials.					
-						<u> </u>	
P7.4*	•	arts > 25 g have material codes according to ISO 11469 referring ISO 1043-4.				<u> </u>	<u> </u>
P7.5		arts are free from metal inlays or have inlays that can be removed with commonly a	vailable to				
P7.6*		re easily separable. (This requirement does not apply to safety/regulatory labels).			$\boxtimes$		
P7.7*	Product						
		ng can be done e.g. with processor, memory, cards or drives				<u> </u>	<u> </u>
P7.8*		ng can be done using commonly available tools			$\boxtimes$		<u> </u>
P7.9		arts are available after end of production for: 5 years					<u> </u>
P7.10		s available after end of production for: 5 years					
P7.11*		and substance requirements cover/housing material type (e.g. plastics, metal, aluminum):					
F7.11			l type: St	eel			
P7.12		n materials of external electrical cables are PVC free.	. type. <b>e</b> t			$\square$	
P7.13		n materials of internal electrical cables are PVC free.				Ħ	Ħ
P7.14	weight (1 polyvinyl	plastic casing/cover parts > 25 g contain no more than 0,1% weight (1000 ppm) bro 000 ppm) chlorine attributable to brominated flame retardants, chlorinated flame ret chloride or 0,3% weight (3000 ppm) bromine and 0,3% weight (3000 ppm) chlorine og more than 25% post-consumer recycled content.	tardants,	10,1%			
P7.15	Printed c	ircuit boards, PCBs (without components) are low halogen: all $\square$ PCBs > 25 g $\boxtimes$ as defined in IEC 61249-2-21. (See <sup>5</sup> NOTE B2)	are low		$\boxtimes$		
P7.16	Flame re Marking:	tarded plastic parts > 25 g in covers / housings are marked according ISO 1043-4:					$\square$
P7.17		nemical specifications of flame retardants in printed circuit boards > 25 g (without co additive) , TBBPA (reactive) (See NOTE B3), Other; chemical name:	mponent , CAS #:	s):			
	accordin	nemical specifications of flame retardants in printed circuit boards (without compone g ISO 1043-4: <i>FR (40)</i>		-	$\boxtimes$		
P7.18	concentr 1. Chem 2. Chem	ame retarded plastic parts > 25 g contain the following flame retardant substances/p ations above 0,1%: ical name: , CAS #: (See NOTE B4) ical name: , CAS #: " ical name: , CAS #: "	oreparatic	ins in			
	Alt. 2. Ch	nemical specifications of flame retardants in plastic parts > 25 g according ISO 1043	3-4:				$\boxtimes$
P7.19	In plastic assigned The sour	Parts > 25 g, flame retardant substances/preparations above 0,1% are used which I the following Risk phrases; and Hazard statements: rce(s) for these classifications is/are found at (add URL(s)): ha.europa.eu/web/guest/information-on-chemicals/cl-inventory-database (See	have bee				

NOTE B3 and B4 A Guidance document on Chemical substances is available; see <a href="http://www.ecma-international.org/publications/standards/Ecma-370.htm">http://www.ecma-international.org/publications/standards/Ecma-370.htm</a>.

GENERAL NOTE Standard references should direct to the latest version of a standard. If an older version of a standard is used, section P15 shall be used for explanation.

NOTE B2 IEC 61249-2-21 defines maximum limits of 900 ppm for each of the substances chlorine and bromine and a maximum limit of 1500ppm of these substances combined. The standard does not address fluorine, iodine and astatine which are included in the group of halogens.

NOTE B5 If a certain substance has been assigned a certain risk phrases / hazard statement in the referenced source, this does not necessarily mean the substance has been tested for all of the hazards referred to by a certain customer.

Model number *	<i>t</i> 550	Logo	
Issue date *	12/12/2022		

Product	environmental att	tributes - Market r	equirements (cont	inued)		Requi	reme	nt met
ltem						Yes	No	n.a.
		tance requirements						
P7.20*	Postconsumer recy	cled plastic material of	content is used in the p	product (See NOTE Be	;):	$\boxtimes$		
			es below shall be answ					
	percentage of	parts' weight > 25 g, total plastic by weigh		cycled plastic material	content (calculated as a			
	or b) The weight of	recycled material is	<i>a</i>					
P7.21*	Biobased plastic m	aterial content is use	g. d in the product (See N	NOTE B7):			$\square$	
			es below shall be answ					
	<ul> <li>a) Of total plastic of total plastic</li> </ul>		, the biobased plastic	material content (calc	ulated as a percentage			
	or	, ,						
D7 00*	b) The weight of	the biobased plastic	material is g.	_				
P7.22*		ee from mercury, i.e. specify: Number of la	less than 0,1 mg/lamp	o. num mercury content p	per lamp: mg			$\bowtie$
P8	Batteries				ing			
P8.1*	Battery chemical composition: lithium/manganese dioxide							
P9	Energy consumpt	ion (See NOTE B8)						
P9.1	For the product the	following power leve	Is or energy consumpt	ions are reported:				
Energy m	ode *	Power level at 100 V AC	Power level at 115 V AC	Power level at 230 V AC	Reference/Standard f modes and test method		Ŋ	
EPS No-lo	bad	0.048W	0.0513W	0.078W	EPS Energy Test Re	port		
(External	power supply /							
charger pl	ugged in the wall disconnected from							
the produc								
PTEC *	•	W	W	W	EnergyStar@Progra	am		$\boxtimes$
Typical Er	nergy Consumption				Requirements for C		r	
ETEC *		25.62 kWh/year	26.61 kWh/year	28.67 kWh/year	EnergyStar@Progra		_	
Annual Er	nergy Consumption				Requirements for C	ompute	r	
External	Ower Supply Efficies	L cv Level (Internations	L Efficiency Marking P		EnergyStar@Progra	am		
External Power Supply Efficiency Level (International Efficiency Marking Protocol) * : VI				Requirements for C	ompute	r		
					EnergyStar@Progra Requirements for Co		r	
					EnergyStar@Progra Requirements for Co		r	
P9.2*	Information about t	he energy save funct	ion is provided with the	e product.	1	$\square$		
P9.3	Energy efficiency c		لالك					
. 0.0	_norg, onloiding o							

NOTE B6 Applies to a product containing plastic parts whose combined weight exceeds 100 g with the exception of printed circuit boards, cables, connectors and electronic components and bio-based plastic material.

NOTE B7 The following is to be excluded from the calculation of percentage: printed circuit boards, labels, cables, connectors and electronic components and postconsumer recycled plastic

NOTE B8 A Guidance document on Energy Efficiency is available;

see http://www.ecma-international.org/publications/standards/Ecma-370.htm.

Model number *	<i>t550</i>	Logo	
Issue date *	12/12/2022		

Item <b>P10</b> P10.1	Emissions Noise emission				Yes	No	n.a.
P10.1	Noise emission						
P10.1		on – Declared according to ISO 9296 (Se	,				
	Mode	Mode description	Statistical upp L <sub>WA,c</sub> (B)	per limit A-weighted sound powe	r level,		
	Idle	* Fans on	* 2.6				
	Operation	* Fans on, HDD spinning	* 2.6			[	
	Other mode	CPU	2.6				
			overed by ECMA-74)				
	Electromagne						
P10.4	program(s):	lay meets the requirement for low freque	ency electromagnetic field	ls of the following voluntary			
P12	Ergonomics f	or computing products					
P12.1*		eets the ergonomic requirements of ISO					$\square$
P12.2*	The physical ir	nput device meets the requirements of IS	O 9995 and ISO 9241-4	10.		$\boxtimes$	
P13		d documentation					
P13.1*	Product packa Product packa	ging material type(s): PAPER/Corrugate ging material type(s): PAPER/Molded p ging material type(s): PLASTIC/Polyeth	ulp	weight (kg): <i>0.546</i> weight (kg): <i>0.100</i> weight (kg): <i>0.008</i>			
P13.2*	Product plastic	primary packaging is free from PVC.			$\boxtimes$		
P13.3*	For product pri consumer reco	mary corrugated fiberboard packaging, sovered fiber content: 87%	specify the contained per	centage of minimum post-	_		
P13.4*		for user and product documentation (tick Paper , Other	s box):				
P13.5		omplete this item if paper documentation uct documentation on paper media is chl specify:					
	Totally chlorine	e-free					
	Elemental chlo	rine-free			$\overline{\boxtimes}$		
	Processed chl	orine-free					
P14	Voluntary pro	grams					
P14.1		eets the requirements of the following vo	luntary program(s):				
	ENERGY STA		Date: 12/12/2022				
	Eco-label: TC		Date: 12/12/2022				
	Eco-label: EPI	EAT Criteria version: IEEE 16	80.1 Date: 12/12/2022	Product category: thin client	S		
P15	Additional inf	ormation (See NOTE B10)					
P9	Energy consu	imption of computer products; descri	ption of the tested proc	luct configuration:			
All Sections	1. Product en	1. Product environmental information contained in this declaration is valid as of the date the declaration is published. Changes to external standards referenced in the IT Eco-Declaration may invalidate some information contained in this					
P1		ver ct does not include DEHP, BBP, DIBP,	or DPP				

NOTE B9 A Guidance document on Acoustic Noise is available;

 $see \ \underline{http://www.ecma-international.org/publications/standards/Ecma-370.htm}.$ 

NOTE B10 Additional lines may be inserted to declare further items, by positioning the cursor at the far right of the row and hitting the <Enter> key.

## P7 Product Upgradability and Reparability

The following table is provided in accordance with IEEE 1680.1-2018<sup>6</sup> criterion 4.4.2.5.

feature	Available[ 1]	Repairable[ 2]	Replaceable[ 2]	Upgradeable[3]
processor	Ý	Ý	N	N
main memory	Y	Y	Y	N
mass storage (internal)	Y	Y	Y	Y
wireless networking	Y	Y	Y	N
integrated graphics	Y	Y	N	N
discrete graphics	N	N/A	N/A	N/A
display panel	N	N/A	N/A	N/A
integrated keyboard	N	N/A	N/A	N/A
battery	N	N/A	N/A	N/A
power supply	Y	Y	Y	N
fan assemblies	N	N/A	N/A	N/A
speaker(s) (internal)	Y	Y	Y	N
camera	N	N/A	N/A	N/A
touchpad	N	N/A	N/A	N/A
I/O connectors and external power connector	Y	Y	Y	N
readers [5]	N	N/A	N/A	N/A

## Table notes: [1] $Y^*$ = feature is available, but may not be included in every configuration

[2] Product can be repaired (returned to fully functional state) if feature fails.

[3] Feature can be replaced using only commonly available tools without soldering or de-soldering. Y\* = replacement may require replacing an assembly to which the feature is attached.

[4] Base feature may be upgraded by replacing it with a higher performance module or by expanding capacity through use of expansion slots. NOTE: This evaluation does not

account for situations in which the initial configuration purchased is already maximized. Contact HP Sales or an HP authorized reseller to determine the availability of upgrade parts and method to obtain them in your geography.

[5] This feature category includes readers such as fingerprint readers, smart card readers, and other read-only devices, but excludes read/write devices.

P9	1. European U	nion Commission Regulation 1	275/2008- Ener	av Efficiency Information:			
		Mode / Condition		mption in Watts at 230 VAC	Default Time to Mode / Condit (if applicable)		
	Off Mode (if a	pplicable)	0.262W		Not Applicable		
	Standby Mode	e (if applicable)	Not Applicable	•	Not Applicable		
	all wired netw	dby / Sleep / Long Idle Mode if ork ports are connected and all work ports are activated (if	1.43W		10min		
	Network Standby / Sleep / Long Idle Mode (if applicable)		1.43W		10min		
	Where applicab operating syste	m. Information is also available a	less network usi	ng the instructions provided in the	product user guide or the		
P10	Sound Pressu			39\			
P10.1	Mode	n – Declared according to ISO 92 Mode description	See NOTE	Statistical upper limit A-weighted L <sub>pA,m</sub> (dB)	d sound pressure level,		
	Idle	* Fans on		* 13.7			
	Operation	* Fans on, HDD spinning		* 13.8			
	Other mode	SDD		13.7			
	Measured acco	Measured according to: 🛛 ISO 7779 🔀 ECMA-74					

6 IEEE Standard for Environmental and Social Responsibility Assessment of Computers and Displays

## Other (only if not covered by ECMA-74) Legal references Europe Annex B2

Reference	Declaration item
Directive 2011/65/EU (RoHS Directive)* * Specific exemptions apply for certain products and applications.	P1.1, P3.1
Regulation (EC) 1907/2006 (REACH Regulation), annex XVII	P1.2, P1.4, P1.6, P1.7
Regulation (EC) 2037/2000, 2038/2000, 2039/2000 (Marketing and use of Ozone layer depleting substances)	P1.3, P5.3
Norwegian regulation relating to restrictions on the use of certain dangerous chemicals 20.12.2002	P1.5
Directive 2006/66/EC (Battery and accumulators Directive), as amended.* * These provisions shall not apply where, for safety, performance, medical or data integrity reasons, continuity of power supply is necessary and requires a permanent connection between the appliance and the battery or accumulator.	P2.1, P2.2, P2,3, P8.1
Directive 2014/35/EU (Low Voltage Directive)	P3.1
Directive 2014/30/EU (EMC Directive)	P3.1
Directive 2014/53/EU (RE Directive)	P3.1
Regulation (EC) 801/2013 amending Regulation (EC) No 1275/2008 with regard to ecodesign requirements for standby, off mode electric power consumption of electrical and electronic household and office equipment, and amending Regulation (EC) No 642/2009 with regard to ecodesign requirements for televisions	P3.1, P3.2
Commission Regulation (EC) No 278/2009 of 6 April 2009 implementing Directive 2005/32/EC of the European Parliament and of the Council with regard to ecodesign requirements for no-load condition electric power demand and average active efficiency of external power supplies	P3.1, P3.2, P9.1
COMMISSION REGULATION (EU) No 617/2013 of 26 June 2013 implementing Directive 2009/125/EC of the European Parliament and of the Council with regard to ecodesign requirements for computers and computer servers	P2.4, P2.5, P3.1, P3.2, P7.23, P9.1
Regulation (EC) No 1272/2008 (CLP Regulation)	P7.19
Directive 2004/12/EC (Packaging Directive)	P5.1
Decision 97/129/EC (Secondary packaging legislation)	P5.2
Directive 2012/19/EU (WEEE directive)	P6.1
Implementing Regulation (EU) 2019/290 establishing the format for registration and reporting of producers of electrical and electronic equipment to the register.	
Commission Implementing Regulation 2017/699 establishing a common methodology for the calculation of the weight of electrical and electronic equipment (EEE) placed on the national market in each Member State and a common methodology for the calculation of the quantity of waste electrical and electronic equipment (WEEE) generated by weight in each Member State.	