



## Product specific requirements: 180. Candles, Tea lights, Outdoor candles and torches

Version: 4.0 Last update: 06.04.2022

Material	Products	Remark
-	Candles, Tea lights, Outdoor candles and torches	-

No	Parameter	Method	Reference	Requirement					
	General requirements								
1	PrSG	-	SR 930.11	eve to fulfil requirments					
2	GPSD	-	2001/95/EEC	Have to fulfil requirments	ave to fulfil requirments				
3	Food imitation directive	-	87/357/EEG	Have to fulfil requirments	ve to fulfil requirments				
4	RAL Quality Mark for candles	-	RAL-GZ 041	Have to fulfil requirments					
5	REACH	-	EC 1907/2006	Have to fulfil requirments					
6	SVHC	-	EC 1907/2006	Have to fulfil requirments					
7	POPs regulation on Persistent Organic Pollutants	-	Regulation 2019/1021	Have to fulfil requirments					
8	Substances that deplete the ozone layer	-	1005/2009/EC	Have to fulfil requirments					
9	CLP; Classification, labelling and packaging	classification, labelling 1272/2008/EC Have to fulfil requirements							
	Candles Requirements								
Г					Candles	Tea lights	Outdoor candles/Torches		
10	Sooting behavior	EN 15426: 2018	-	average soot index <1,0/hr	•	•			
-	Sooting behavior	Lab inhouse	-	No visible release of soot.			•		
_	Fire safety	EN 15493: 2019	-	Full compliance with standard	•	•			
	Fire safety  Burning evaluation	Lab inhouse	_	Full compliance with RAL-GZ 041/4  - Average burning time not less than specification, max deviation for a single sample: 10% below specified burning time  Centered wick  - 12 tea lights of representative sampling shall be evaluated.  The average burning time shall be not less than the stated burning time.			•		
				The maximum burning time deviation for a single sample shall be within 10 % of the stated burning time  - Average burning time not less than specification, max deviation for a single sample: 10% below specified burning time  Centered wick	•	•			
15	Spillage	Lab inhouse		burning time  - Average burning time not less than specification, max deviation for a single sample: 10% below specified burning time	•	•			
	Spillage Clubbing on wick		-	burning time  - Average burning time not less than specification, max deviation for a single sample: 10% below specified burning time  Centered wick  Taper: No dripped wax that reaches the bottom of the holder.	·	-			
16	Clubbing on wick	Lab inhouse	-	burning time  - Average burning time not less than specification, max deviation for a single sample: 10% below specified burning time Centered wick  Taper: No dripped wax that reaches the bottom of the holder.  Pillar and others: Max 10 %	•	•			
16	Clubbing on wick	Lab inhouse Lab inhouse	-	burning time  - Average burning time not less than specification, max deviation for a single sample: 10% below specified burning time Centered wick  Taper: No dripped wax that reaches the bottom of the holder. Pillar and others: Max 10 %  Excessive clubbing not permitted  Max 15 sec if candle diameter < 30 mm	•	•			
16 17 18	Clubbing on wick  Aftersmoke  Deformation of containers	Lab inhouse Lab inhouse Lab inhouse	-	burning time  - Average burning time not less than specification, max deviation for a single sample: 10% below specified burning time Centered wick  Taper: No dripped wax that reaches the bottom of the holder.  Pillar and others: Max 10 %  Excessive clubbing not permitted  Max 15 sec if candle diameter < 30 mm  Max 20 sec if candle diameter ≥ 30 mm	•				
16 17 18 19	Clubbing on wick  Aftersmoke  Deformation of containers (container candles) / cups	Lab inhouse  Lab inhouse  Lab inhouse  Lab inhouse  Lab inhouse	-	burning time  - Average burning time not less than specification, max deviation for a single sample: 10% below specified burning time Centered wick  Taper: No dripped wax that reaches the bottom of the holder. Pillar and others: Max 10 %  Excessive clubbing not permitted  Max 15 sec if candle diameter < 30 mm Max 20 sec if candle diameter ≥ 30 mm  The container / cup must not be destroyed or deformed during normal use of the candle.	•	•			
16 17 18 19 20	Clubbing on wick  Aftersmoke  Deformation of containers (container candles) / cups  Wax remainder	Lab inhouse  Lab inhouse  Lab inhouse  Lab inhouse	-	burning time  - Average burning time not less than specification, max deviation for a single sample: 10% below specified burning time  Centered wick  Taper: No dripped wax that reaches the bottom of the holder.  Pillar and others: Max 10 %  Excessive clubbing not permitted  Max 15 sec if candle diameter < 30 mm  Max 20 sec if candle diameter ≥ 30 mm  The container / cup must not be destroyed or deformed during normal use of the candle.  Max 2 g	•	•			
16 17 18 19 20	Clubbing on wick  Aftersmoke  Deformation of containers (container candles) / cups  Wax remainder  Wax pool temperature  Flame height  Flammability of plastic tealight cups	Lab inhouse	-	burning time  - Average burning time not less than specification, max deviation for a single sample: 10% below specified burning time Centered wick  Taper: No dripped wax that reaches the bottom of the holder.  Pillar and others: Max 10 %  Excessive clubbing not permitted  Max 15 sec if candle diameter < 30 mm  Max 20 sec if candle diameter ≥ 30 mm  The container / cup must not be destroyed or deformed during normal use of the candle.  Max 2 g  Max 100°C	•	•			
16 17 18 19 20 21	Clubbing on wick  Aftersmoke  Deformation of containers (container candles) / cups  Wax remainder  Wax pool temperature  Flame height	Lab inhouse  Lab inhouse  Lab inhouse  Lab inhouse  Lab inhouse  Lab inhouse  Lab inhouse Measured from surface of wax to flame tip	-	- Average burning time not less than specification, max deviation for a single sample: 10% below specified burning time Centered wick  Taper: No dripped wax that reaches the bottom of the holder.  Pillar and others: Max 10 %  Excessive clubbing not permitted  Max 15 sec if candle diameter < 30 mm Max 20 sec if candle diameter ≥ 30 mm  The container / cup must not be destroyed or deformed during normal use of the candle.  Max 2 g  Max 100°C  14-30 mm	•	•			

180. Candles 1/3





## Product specific requirements: 180. Candles, Tea lights, Outdoor candles and torches

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No	Parameter	Method	Reference	Requirement			
	Construction / Workmanship Qualities / Performance Testing						
					Candles	Tea lights	Outdoor candles/Torches
25	Substances of Very High Concern (SVHC)	Screening Test	-	0.1 % of each SVHC	•	•	
	Heavy metals	ICP-MS EN 71-3	-	Nickel < 10 mg/kg Cadmium <10 mg/kg Lead < 20 mg/kg Arsenic < 10 mg/kg Barium < 100 mg/kg Chromium (total) < 400 mg/kg	•	•	
27	Flame retardants	in House Methode	SR 814.81 (Chem RRV) Anhang 1.1; 1.2; 1.9 of Art. 3		•	•	
_	Alkanes C10-C13, chloro (short-chain chlorinated paraffins) (SCCPs) Polycyclic aromatic	GC-MS or GC-ECD	SR 814.81 Anhang 1.1, Ziffer 2, a) SR 814.81(ChemRRV)		•	•	
29	hydrocarbons, PAH	AfPS GS 2014:01	Anhang 2.9, Ziffer 2e		•	•	
30	Dimethyl Fumarate (DMF)	GC-MS	SR 814.81 (ChemRRV) Annex 2.4, Ziffer 2.2		•	•	
31	Organotin Compounds	EN ISO 17353	SR 814.81 (ChemRRV) Annex 1.14; Art. 3		•	•	
32	Nickel Release*	EN ISO 11885, ICP-OES ; EN ISO 1811:2013	SR 817.023.41		•	•	
	Toxicology			Only for Candles which Fragrences			•
34	Allergenicity			Only for Candles which Fragrences			<u> </u>
	Labeling		1				
	Safety labelling				general warning s	ign	
				<b>i</b> ₫ <b>*</b> ⊿	Never leave a bui	ning candle unattend	ed.
35		Safety labelling EN 15494:2019 Mandatory safety information according to standard		Burn candle out of the reach of children and pets.		n and	
						Always leave at le candles.	ast xx cm between b
					Do not burn cand	es on or near anythir	ng that can catch fire.

180. Candles 2/3





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No	Parameter	Method	Reference	Requirement	
					Do not place candles in a draught.
					Do not place candles near a source of heat.
				<b>L</b>	Place candles in an upright position.
					Trim wick to about 1 cm before lighting.
			optional safety information according to standard	7 A % I	Always snuff out the flame. Do not blow it out.
36	36 Safety labelling	Safety labelling EN 15949:2007		<b>*</b>	Always use a candleholder.
				**	Keep the wax pool clear of matches and other debris to avoid flaring.
					Only use tea light in holders and warming stoves with sufficient ventilation.
					Use a suitable container as these candles liquefy when burning.
				<b>*</b>	Use a suitable container as these candles liquefy when burning.
					Never use liquid to extinguish.
	Safety information (scented		Mandatory safety	×,	Ventilate the room after use.
37	Safety information (scented candles only)	EN 16740:2016	Mandatory safety information according to standard		Avoid direct inhalation of any smoke

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