


## Product specific requirements: 019. Umbrellas


Version: 3.0  
Last update: 22.03.2022

Material	Age Group	Products
Textile, Plastic, Polymers	adults, kids	Parasols, umbrellas 

No	Parameter	Method	Reference	Remarks	Requirement
<b>Chemical Parameter</b> These parameters are mandatory and does not replace our full chemical policy (see Manor QM Part A, Pgf 3)					
1	<b>Polycyclic Aromatic Hydrocarbons (PAHs)</b> (Appendix)	AfPS GS 2019:01 PAK	SR 817.023.41(CH) EU1907/2006 Annex XVII	Plastics	Direct Contact Skin EU PAH each < 0,5 mg/kg Total sum < 10 mg/kg
2	<b>Phthalates</b> (Appendix)	ISO 14389	SR 817.023.41 (CH) EU No 1907/2006	Plastics < 36 months	DEHP / DBP / BBP / DIBP = 0.1% (Each or Total)
3	<b>Short Chain Chloroparaffins (SCCP)</b> (C10 - C13)	ISO 18219: 2015 GC-MS or GC-ECD;	SR 814.81 (CH) (EU) 2015/2030	Plastics, Rubber, TPU, Coating	SCCPs limit (flame retardant): no use; SCCPs limit (other): < 1000 mg/kg; Manor (Oekotex): 100 mg/kg
4	<b>Organotin compounds</b>	Textile: ISO 22744-1:2020 Non-textile: CEN ISO/TS 16179: 2012	SR 817.023.41 (CH) REACH Annex XVII Entry 20	Plastics, Coating	CH Law: DOT< 1000 mg/kg by weight of tin; EU REACH Law: DBT, DOT, TBT, TPhT< 1000 Manor (Oekotex): TBT, TPhT: 1 mg/kg // DBT, DOT, MBT: 2 mg/kg
5	<b>Lead</b>	Non-leather: EN 16711-1 Leather: ISO 17072-2	SR 817.023.41 (CH) SR 814.81 (CH) EU No 1907/2006	Textile Plastics	500 mg/kg for all material (except surface treatment on textile, and paints and varnishes)
6	<b>Cadmium(Total)</b>	EN 1122; EN 16711-1	SR 817.023.41(CH) (EC) No 1907/2006	Textile Plastics	Plastic: 100 mg/kg Surface coating/paint on article: 1000 mg/kg Manor: 40 mg/kg (Manor Regulation)
7	<b>Azo Dyes</b> (Appendix) <b>p-Aminoazobenzol</b>	Textile: DIN EN 14362-1:2017 Leather: DIN ISO 17234-1:2015 4-aminoazobenzene Textile: DIN EN 14362-3:2017 Leather: DIN ISO 17234-2011	SR 817.023.41 (CH) EU Regulation No 1907/2006	Textile, Leather	Each 30 mg/kg
8	<b>Nickel release</b>	EN 12472:2020 / EN 1811:2011 + A1:2015	SR 817.023.41(CH)	Metal	CH Law/ Manor < 0.5 µg/cm <sup>2</sup> /Week EU Law:< 0,88 mg/cm <sup>2</sup> (prolonged and direct contact with the skin)

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<b>General requirements</b>					
No	Parameter	Methods/ Standard	Specific Parameter / Material	Min. Requirement Standard	Quality
9	Workmanship	Visual Check	Product and its components has to met the requirements on <b>design and quality</b> according to information offered by producer;		<b>No damages on material:</b> -Without major defects -Without components missing, deformed or fractured -Without hardware missing -Without loose components -With proper and uniform adhesion in wooden parts -Consistent in size, Color and form for plastic parts -Even in Color & clarity
10	Workmanship	Visual Check	The item shall be free from <b>sharp edges, mechanical squeezing and shearing points.</b>		Free from burrs, splinters or sharp edge: -Without pits or burrs and weld smoothly filed / grounded -Without scratches, dents, cracks, marred or discoloured surface -With finished edges and seams -Evenly aligned in seams and components
11	<b>Sharp Points/ Sharp Edges</b>	Visual Check / EN 71 Part 1	Till 14 Years only		No Sharp points or Sharp edges before and after abuse test
12	<b>Overall dimensions</b>	Standard Measure	Overall Height (cm and inches)		shall comply with any claims ( + 5%, -0%)
		Direct Measure	Overall diameter of opened umbrella (cm)		shall comply with any claims ( + 5%, -0%)
		Standard Measure	Overall Weight (kg & lbs)		shall comply with any claims ( + 5%, -0%)
13	<b>Accessories</b>	Visual Check	Overall Weight (kg & lbs)		All submitted accessories such as carrier bag, crank handle, tools and hardware etc. Shall be available. Shall comply with any claims.
14	<b>Outdoor Furniture-domestic and contract use.</b>	EN 581-1 with modification (for adult item only)	Part 1. General safety requirement		The product shall comply with the requirement of EN 581-1: - Edges and corners; - Tubular components, holes and gap accessible during use; - Shear and squeeze points (exclude functional sharp edge)
15	<b>Type of Materials &amp; surface Finishes</b>	Visual or Microscope	Finishes		Finish on each component, internal and external. Shall meet specific claims.
16	<b>Type of Materials &amp; surface Finishes</b>	Visual or Microscope	Surface Materials		Materials use on frame , fabric shelter, crank handle etc. Shall meet specific claims.
17	<b>Drying time</b>	Actual Use	Surface Materials		Between 5 - 10 Min
<b>Performance Requirements</b>					
18	<b>Operability</b>	actual Use	Whole Product		Should be capable of 10 times open and close cackles; Smooth operation when opening and closing the screen

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19	Resistance to corrosion	ISO 9227/ ASTM B117	Items With Metal Parts		After 24 hours in 5% spray salt (food), there has to be no major discoloration in appearance or any major corrosion that would affect the overall product performance.
20	Water penetration by WIRA Shower	BS 5066 as reference	Surface Cap Materials		Absorption: 40% Penetration: 100 ml
21	Wind resistance Test (if claimed)	In- House Method	Whole Product		The fully opened umbrella should withstand wind blowing at 10 m/s for 30 s in horizontal and vertical positions. The umbrella should be checked for any physical damage or loss of function.
22	Cyclic Durability of Rotating / Moving components	In- House Method	Whole Product		Each rotating / moving component and the stand shall sustain 100 cycles of operations without failure and able to provide a smooth uniform operating after the test
23	Stability of Parasol (if applicable)	EN 581-3 clause 6.2.2.	Whole Product		The erected umbrella shall not overbalance when pulled at its tip with 3 kg.
<b>FABRIC Physical Requirements</b>					
24	Effect on Sunlight UV Exposure (UV Weathering ) (if applicable)	AATCC 186 (only Textile)	Surface Cap Materials		20 days x 24 hours Min Grade 4
25	Colour Fastness to Light	DIN EN ISO 105-B02 (only Textile)	Surface Cap Materials		shall comply grade 4 or above
26	Resistance to Rubbing	DIN EN ISO 105-X12 (only for Textile)	Surface Cap Materials		Dry: shall comply grade 4 or above Wet: shall comply grade 3 or above
27	Colour Fastness to Water	DIN EN ISO 105 E01(only for Textile)	Surface Cap Materials		shall comply grade 3 or above
<b>Label</b>					
28	Labelling	visual/ Manor intern/ EU (Nr) 1007/2011	Whole Product		Trademark Importer's name (name, address in EU or CH) <b>In 1 Swiss official language (DE / IT / FR)</b> Additional Information for user
<b>Packaging</b>					
29	Metal in packaging	In-House	Packaging		Sum of Lead, Cadmium, Mercury and Chrome VI = 100 mg/kg total