



Community face masks

Testing requirements for the EU market



Empowering Trust®



European market testing requirements

Community face masks are not medical devices or Personal Protective Equipment . They include various forms of commercial masks or face coverings made of textiles or other materials. Manufacturers should verify their products' safety requirements and perform specific quality assessments. Learn how UL can help you perform required and suggested testing to access the European market.

Mandatory requirements

Test property	Test method	Product requirements
Azo Dye Analysis of Textiles	EN 14362-1, EN 14362-3	< 30 mg/kg
Determination of Dimethyl Fumarate (DMFu) Content	ISO/TS 16186 or EN 17130	< 0.1 mg/kg
Determination of Formaldehyde in Textiles	EN ISO 14184-1	< 75 mg/kg
Fiber Composition	Regulation (EU) 1007/2011	Blends: +/-3% Single Fiber: No Tolerance
Flame Retardants	ISO 17881-1 and ISO 17881-2	TRIS, TEPA, PBB banned OctaBDE<0.1% Sum of TetraBDE, PentaBDE, HexaBDE < 500 mg/kg
Nonylphenol Ethoxylates	ISO 18254-1	< 0,01 %. New requirements from 3 February 2021
Organostannic Compounds	ISO/TS 16179	Tri-substituted organostannic compounds such as tributyltin (TBT) compounds and triphenyltin (TPT): < 0.1% by weight of tin. Dibutyltin (DBT) compounds: < 0.1% by weight of tin. Diocetyl tin (DOT) compounds: < 0.1% by weight of tin
Pentachlorophenol (PCP) Content	LFGB 64 B 82.02-8	Pentachlorophenol and its salts and esters (PCP) prohibited



Test property	Test method	Product requirements
Pesticides in Natural Textiles	Solvent extraction followed by GC-MS and/or LC-MS/MS	Specific list of banned pesticides
Phenylmercury Compounds	EN 16711-1	< 0.01% by weight of Mercury
Polycyclic Aromatic Hydrocarbons: PAHs in synthetic textiles	AfPS GS 2019:01 PAK or EN 17132	< 1 mg/kg
Restriction of PFOS & PFOA	CEN/TS 15968 (Textile)	1 µg/m ² < 25 ppb PFOA and < of 1000 ppb for PFOA related substances. New requirements from 4 July 2020
Short Chain Chlorinated Paraffin (SCCP)	ISO 18219	Less than 0.15% by weight
Total Lead Content	EN 16711-1	0.05 % by weight
Fiber Content Labelling	Visual Inspection	Labelling review
Standard Test Method for Flammability of Apparel Textiles	ASTM D1230	Burn time min 3.5 seconds or 4 seconds Children's apparel min 7 seconds.

UL's Consumer and Retail Services in Italy is able to provide community face masks manufacturers with this price package for mandatory requirements testing on single color articles:

- 1570 € + VAT including children testing
- 1380 € + VAT excluding children testing

1 color variant = additional € 450 + VAT for specific analysis
3 color variants = additional € 650 + VAT for specific analysis

Recommended testing by UL

In addition to the mandatory requirements, UL recommends performing the following analysis:

Test property	Test method	Product requirements
Attachment Strength: Masks/Covers	CRE Tensile Testing Machine	Fabric mask: Minimum 70 N Disposable mask: Minimum 25 N
REACH: CMR Substances	REACH (EC) 1907/2006 Annex XVII No 72, Appendix 12	Effective from 1 November 2020
Care Labelling	ISO 3758	By words or symbols ISO 3758
Ecolabel for Textile Products	Visual inspection	Written confirmation
Labelling	Visual inspection	Declaration for non-medical use and for not PPE
Colorfastness to Perspiration	ISO 105-E04	Color Change: Grade 4 Staining: Grade 4 Self-Staining: Grade 4-5
Colorfastness to Rubbing	ISO 105-X12	Dry: 4-5 Wet: 3-4
Dimensional Stability and Appearance (3 cycles)	ISO 6330	Max $\pm 5\%$, satisfactory appearance after washing
Sharp Points (0-14 years)	CEN/TR 16792	No sharp edges, no sharp points
Small Parts (3 years)	CEN/TR 16792	No small parts
Colorfastness to Saliva (3 years)	DIN 53160-1	Grade 4-5

UL's Consumer and Retail Services in Italy is able to provide community face masks manufacturers with this price package for mandatory and recommended requirements testing on single color articles:

- 1690 € + VAT including children testing
- 1500 € + VAT excluding children testing

+ 1 color variant = additional € 500 + VAT for specific analysis
+ 3 color variants = additional € 700 + VAT for specific analysis

Contact us at CRS.UL.com/en/contact-us/



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NOTES:

- *Price can differ once the sample is received and examined by our laboratory.*
- *Please expect extra charges in case of retesting.*
- *Detailed identification of applicable chemical restrictions can be provided after receiving the physical sample and/or detailed list of materials.*



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