

# Technical Declaration

## Microplastic Shedding Analysis

### Determination of material loss and qualitative and quantitative evaluation of microplastics from textile sources

The objective of the tests was to evaluate the microplastics shedding rate **MLC Index** (**M**icroparticle **L**oss of one square meter of the **C**leaning textile [mg/m<sup>2</sup>]).

#### Tested Vileda Professional products:

- **r-MicronQuick**
- **Swep r-MicroPlus Pro**
- **Swep MicroCombi**
- **Swep r-MicroTech Pro**
- **Swep r-MicroTech**

The tests were carried out in August 2022 in the external laboratory of Weber & Leucht GmbH, Application Lab, Am Röhlingsberg 20, D-36043 Fulda.

#### Test methods

The laboratory simulated 100 washing cycle treatments (acc. to ISO 23231) and the material loss from the fabrics during washing was determined (acc. to DIN EN ISO 4484-1-Draft and DIN EN ISO 4484-2 – Draft).

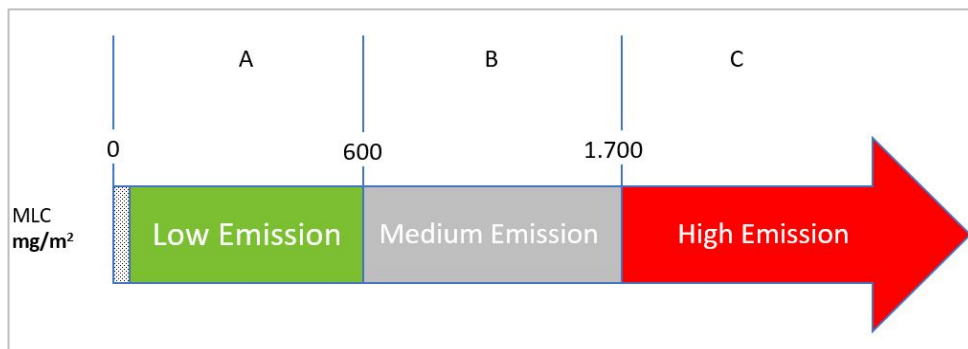
Qualitative InfraRed Spectroscopy, Thermal Analysis (DIN EN ISO 11357-3) and Light and Scanning Electron Microscopy were used for particle detection

## Test results

Product Name	MLC – Index*	Rating class	
r-MicronQuick	533 mg/m <sup>2</sup>	A	Low emission
Sweep r-MicroPlus Pro	106 mg/m <sup>2</sup>	A	Low emission
Sweep MicroCombi	138 mg/m <sup>2</sup>	A	Low emission
Sweep r-MicroTech Pro	126 mg/m <sup>2</sup>	A	Low emission
Sweep r-MicroTech	761 mg/m <sup>2</sup>	B	Medium emission

MLC Index: Amount of microparticle loss [mg] per cleaning cycle of 1 m<sup>2</sup> of cleaning textile, detection limit: < 20 mg/m<sup>2</sup>

## Indication of the mean value from W+L individual measurements



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Weinheim, Germany

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