

Floor FLEX 25



Material Data Sheet

Introduction

Mogu Floor FLEX

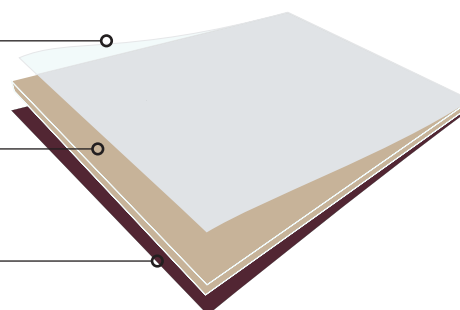
MOGU Floor Flex complies to the CE standard EN 14041 / EN 16776* for Resilient Floor coverings. It is a resilient floor designed to be installed as roll or sheets, similar to any other linoleum or rubber-like material. It is available in two thicknesses, 1.5 or 2.5 mm, depending on the specific project needs. Beside the essential characteristics required by the standard, MOGU has defined a stringent list of requirements to certify the technical properties of the product. The certifications demonstrate the product's resistance to scratches, heels, detergents, UV and its positive contribution to interior design, in terms of air quality (VOC emissions) and acoustic / thermal comfort.

Product composition

topcoat

bio-PU

fleece



Layer	Description	Composition	% on product
1) Topcoat	high-performance wear layer	water-based paint	2%
2) Mogu Flex	aesthetic & core layer	67% biobased polyurethane with oyster shells	68%
3) Fleece	backing	recycled PET	30%

FLEX 25 to glue

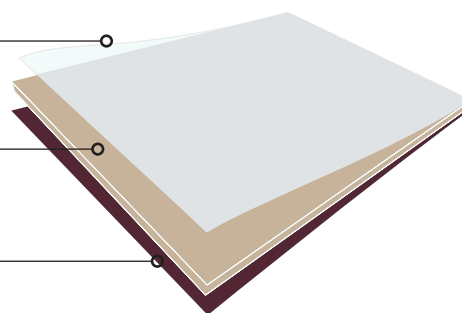
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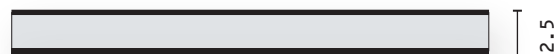
67% biobased
polyurethane

fleece



FLEX 25 - Product sizes

FLEX 25



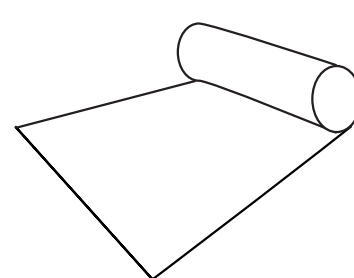
SQUARE S

SQUARE M

SQUARE L

SLAB

ROLL (1.4 m high)



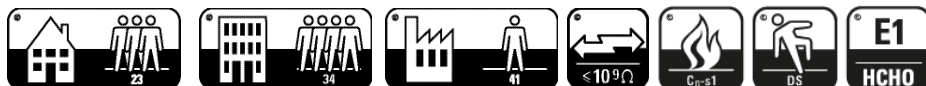
Dimensions & weight

	w [mm]	l [mm]	t [mm]	sqm	weight [Kg]
SQUARE S	500	500	2.5	0.25	0.68
SQUARE M	700	700	2.5	0.49	1.32
SQUARE L	1000	1000	2.5	1	2.70
SLAB	200	1000	2.5	0.2	0.54
ROLL	1400	< 20 m	2.5	n/a	2.94 / mtl

* Rolls can be customized in length

Physical properties & performance

Product characteristics	Property*	Standard
Product type	Resilient Flooring – flexible covering	EN 14041 / EN 16776**
Installation	glue-based	
Thickness	2.5 mm	
Utilization classes	23 / 34 / 41	ISO 10874
Fire Reaction	C _{fl} -s1	EN 13501
Density	1060 kg/m ³	
Product weight	2100 g/m ²	
Dimensional Stability	-0.15%	EN ISO 23999
Residual indentation	< 0.10 mm	ISO 24343
Castor chair	No damage after 25.000 cycles (type W wheels)	EN 425
Furniture leg	No change	ISO 16581
Slip resistance	$\mu \geq 0.30$ (DS class)	EN 13893
Electrical behaviour	$R > 10^9 \Omega$; ≤ 2 kV	EN 1081 / EN 1815
Thermal conductivity	0.02 (m ² K)/W	EN 12776
Impact sound insulation	-5 dB	ISO 10140
Chemical Resistance***	No damage according to the concentration and residence time	ISO 26987
UV fastness	7 (no visible change)	ISO 105-B02
VOC Emissions	Gold	Indoor Air Comfort by Eurofins



* indicative product performances based on preliminary testing. Full CE certifications will be available in Autumn 2022.
 ** Differing from EN 16776, the binder content of Mogu Flex wear layer was partially substituted by biobased fillers, to enhance the sustainable content of Mogu Flex products.
 *** tested for most common chemicals encountered in everyday environments, such as: ammonia, coffee, wine, artificial urine, citric acid, shoe polish, sodium hydroxide
 More information available at support@mogu.bio

Mogu was founded on the belief that it is possible to employ Nature's intelligence to radically disrupt the design of everyday products, seeking a finer balance between the man-made and the rhythms of the natural ecosystem.

Mogu products are obtained by growing mycelium, the vegetative part of mushrooms, on organic fibres (low-value residues from agro-industrial value chains).

The products are the result of five years of continuous and iterative R&D on mycelium technology, guided by a strong product-driven approach.

