

Floor FLEX



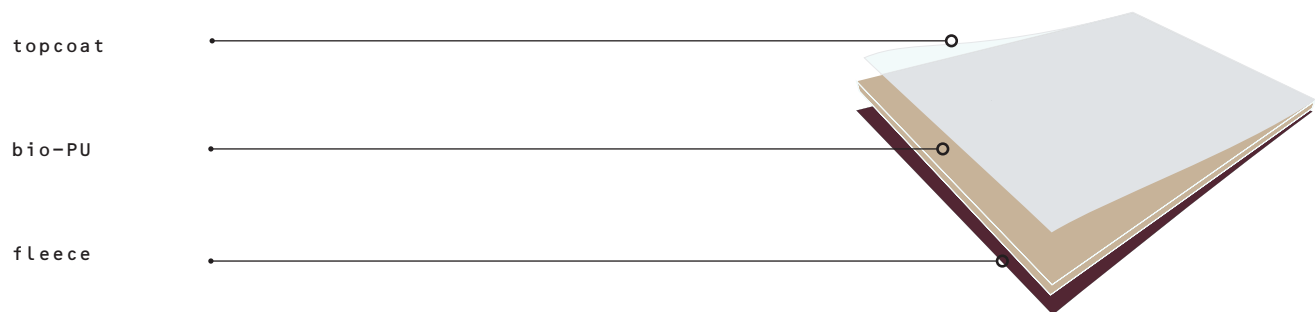
Material Data Sheet

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 lineoleum or rubber-like material. It is available in two thicknesses, 1.5 or 2.0 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



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

Dimensions & weight

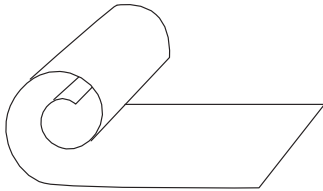
FLEX 15



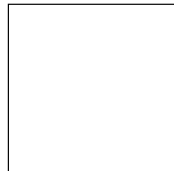
FLEX 20



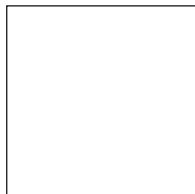
Product sizes



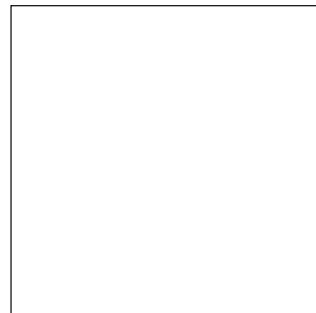
FLEX ROLL (1400 MM HIGH)



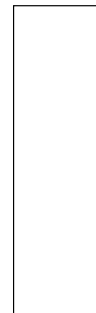
FLEX SQUARE S



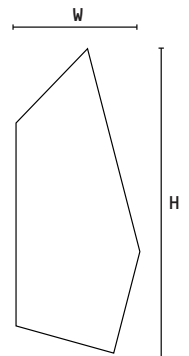
FLEX SQUARE M



FLEX SQUARE L



FLEX SLAB



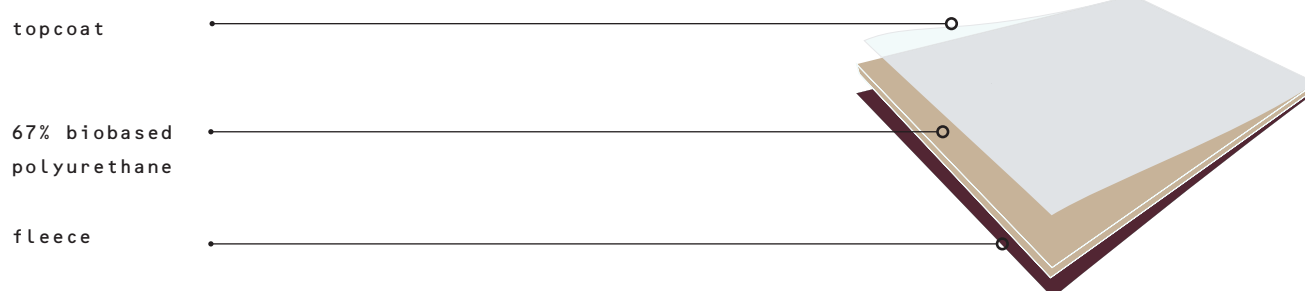
CUSTOM SHAPE*

*With laser cutting technology it is possible to obtain a wide array of custom shapes to meet any specific requirements.

FLEX 15 to glue

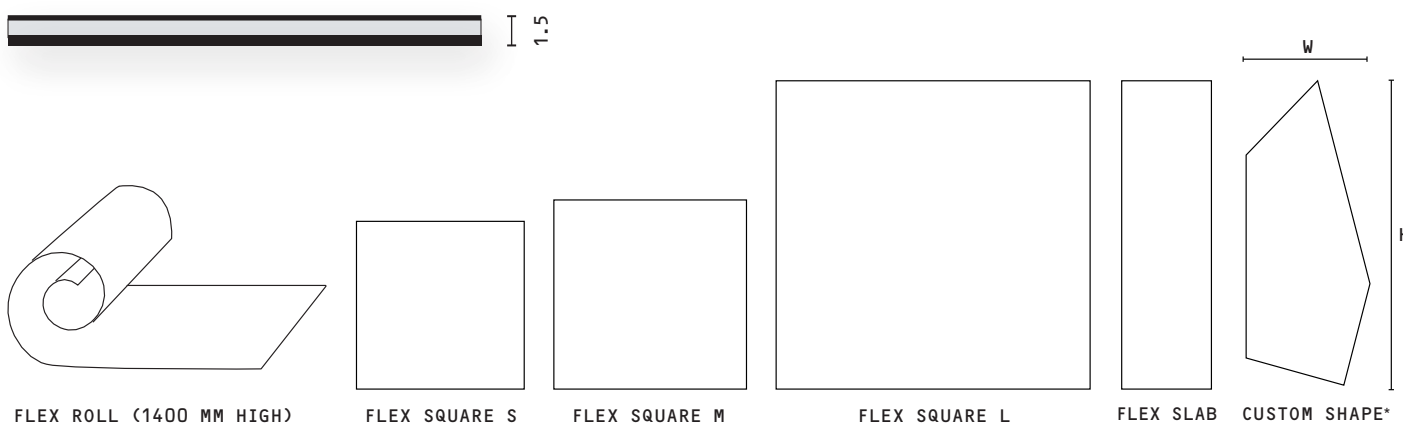
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Product composition



FLEX 15 - Product sizes

FLEX 15



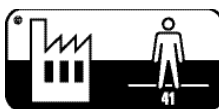
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Dimensions & Weight

PRODUCT	L*	W*	T*	AREA	N°/SQM	FLEX 15
	mm	mm	mm	m²	n°/m²	weight [kg]
FLEX ROLL	<2000	1400	1.5	1.4/mtl	0.7/mtl	1.6 kg/m²
FLEX SQUARE S	500	500	1.5	0.25	4	0.40
FLEX SQUARE M	700	700	1.5	0.49	2	0.79
FLEX SQUARE L	1000	1000	1.5	1	1	1.60
FLEX SLAB	1000	200	1.5	0.2	5	0.32

Physical properties & performance

Product characteristics	Property	Standard
Product type	Resilient Flooring – flexible covering	EN 14041 / EN 16776*
Installation	glue-based	
Thickness	1.5 mm	
Utilization classes	23 / 34 / 41	ISO 10874
Fire Reaction	C _{fl} -s1	EN 13501
Density	1070 kg/m ³	
Product weight	1600 g/m ²	
Dimensional Stability	-0.15%	EN ISO 23999
Flexibility	Average measured value: Ø 30 mm	ISO 24344 Method A
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
Wet ramp value (footwear)	α_{ges} : 11° (R10 / PTV: P2)	EN 16165-B / C
Electrical behaviour	$R > 10^9 \Omega$; $\leq 2 \text{ kV}$	EN 1081 / EN 1815
Thermal conductivity	0.02 (m ² K)/W	EN 12776
Impact sound insulation	-4 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



* 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

Pendulum values (PTV) are available upon request. More information available at support@mogu.bio

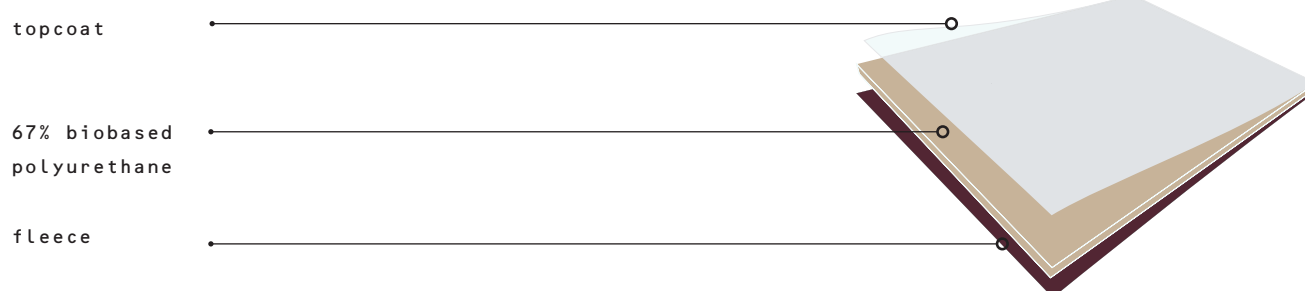
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DoP: FSO_003 download at mogu.bio/floor

FLEX 25 to glue

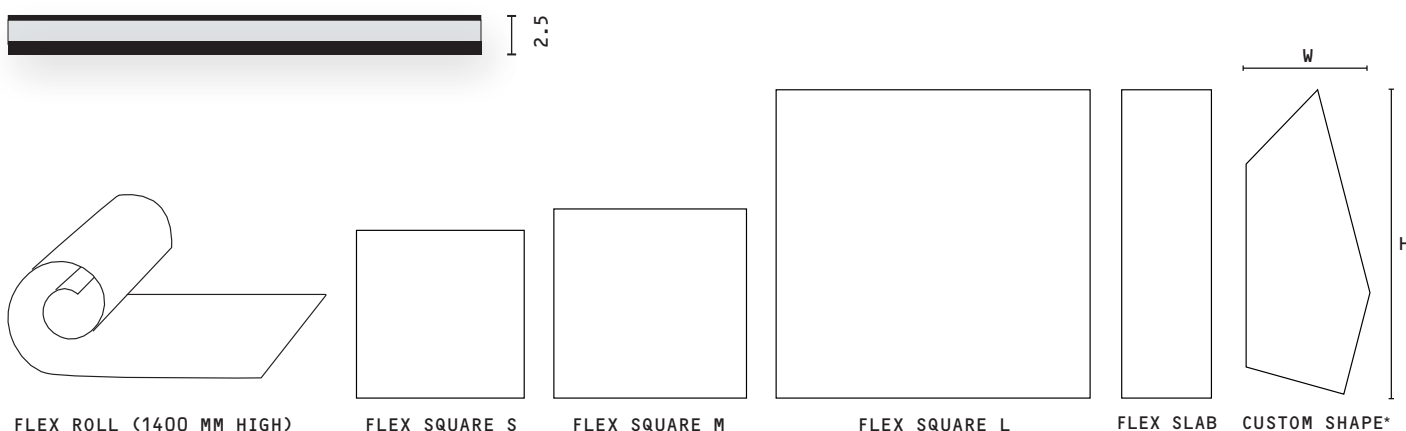
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Product composition



FLEX 25 - Product sizes

FLEX 25



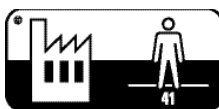
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Dimensions & Weight

PRODUCT	L*	W*	T*	AREA	N°/SQM	FLEX 25
	mm	mm	mm	m²	n°/m²	weight [kg]
FLEX ROLL	<2000	1400	2.5	1.4/mtl	0.7/mtl	2.50 kg/m²
FLEX SQUARE S	500	500	2.5	0.25	4	0.625
FLEX SQUARE M	700	700	2.5	0.49	2	1.225
FLEX SQUARE L	1000	1000	2.5	1	1	2.50
FLEX SLAB	1000	200	2.5	0.2	5	0.50

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	1070 kg/m ³	
Product weight	2500 g/m ²	
Dimensional Stability	-0.15%	EN ISO 23999
Flexibility	Average measured value: Ø 30 mm	ISO 24344 Method A
Residual indentation	< 0.10 mm	ISO 24343
Castor chair	No damage after 25.000 cycles (type W wheels)	EN 425
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Slip resistance	$\mu \geq 0.30$ (DS class)	EN 13893
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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.

