

Product Data Sheet

RESOPAL® Massiv

(supplement to the product data sheet for RESOPAL® laminate HPL according to DIN EN 438)

The product data sheet for RESOPAL® laminate HPL according to DIN EN 438 forms the basis for these comments. If not otherwise stated, the descriptions given there apply.

- 1 Material description and Composition
- 2 Technical Data

1 Material description and Composition

RESOPAL®-Massiv is a HPL compact panel. HPL compact panels are decorative high pressure laminate according to DIN EN 438, part 4, in a thicknesses of more than 2 mm. They are large format panels and are complete with decorative resistant surfaces and a homogenous closed cutting edge. One or both panel sides feature decorative colours or patterns.

In thicknesses below 3 mm, compact boards can be bonded to rigid substrates.

In larger material thicknesses, i.e. over 5 mm, HPL compact boards are very dimension stable and from there self-supporting. Due to its high modulus of elasticity the material offers additionally the advantage of high flexural rigidity.

There are RESOPAL®-Massiv panels alternatively in building material class B2 and B1 according to DIN 4102-1 rather in Euroclasses B and D according EN 13501-1.

2 Technical Data

Characteristics	Test method	Unit	Value
Density	ISO 1183	g/cm ³	ca. 1,4
Abrasion resistance	DIN EN 438-2	Index	3
Impact resistance (depending on thickness)	DIN EN 438-2	Index	4
Scratch resistance (depending on texture)	DIN EN 438-2	Rating	4, 3, 2
Light fastness (xenon arc)	DIN EN 438-2	Grey scale rating (EN 20105-A02)	4 – 5
Resistance to dry heat (180°C) (depending on texture)	DIN EN 438-2	Rating	4 – 5
Resistance to wet heat (100 °C) (depending on texture)	EN 12721	Rating	4 – 5
Resistance to cigarette burns	DIN EN 438-2	Rating	≥ 3
Dimensional stability at elevated temperature longitudinal transverse	DIN EN 438-2	% %	ca. 0,2 ca. 0,4
Water steam permeability	DIN 53122	g/(d · m ²)	ca. 1 – 2
Tensile strength longitudinal transverse	EN ISO 527-2	N/mm ² N/mm ²	100 70
Flexural strength longitudinal transverse	EN ISO 178	N/mm ² N/mm ²	140 100
Modulus of elasticity longitudinal transverse	EN ISO 178	N/mm ² N/mm ²	14.000 10.000

Surface resistance (antistatic behavior)	DIN EN 61340-2-3 (no static load)	Ω	$10^9 - 10^{11}$
Fire behaviour RESOPAL Massiv RESOPAL Massiv F	DIN 4102-1 DIN 4102-1		B2 B1
RESOPAL Massiv RESOPAL Massiv F	EN 13501-1 EN 13501-1		D, s2 – d0 B, s1 – d0
Co-efficient of thermal expansion longitudinal transverse	DIN 51045 (+80/-20°C)	1/K 1/K	$0,9 \cdot 10^{-5}$ $1,6 \cdot 10^{-5}$
Thermal conductivity	DIN 52612	W/(m · K)	ca. 0,3
Calorific value	DIN 51900	MJ/kg	ca. 20

All information is based on the current state of technical knowledge, but it does not constitute any form of guarantee. It is the personal responsibility of the user of the products described in this information leaflet to comply with the appropriate laws and regulations.