

# RESOPAL® COMPACT

## PRODUCT DATA SHEET

### 1. Material description

RESOPAL Compact is a HPL compact panel which is according to DIN EN 438 part 4 (classification and specification like a compact panel in a thickness of more than 2 mm). They are large format panels with decorative resistant surfaces and a homogenous closed cutting edge. One or both panel sides shows a with melamine resin impregnated decorative paper. 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 Compact 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 <sup>3</sup>	≥ 1,4
Abrasion resistance	DIN EN 438-2	Kennzahl	3
Impact resistance (depending on thickness)	DIN EN 438-2	Kennzahl	4
Scratch resistance (depending on texture)	DIN EN 438-2	Grad	4, 3, 2
Light fastness (xenon arc)	DIN EN 438-2	Grey scale (EN20105-A02)	4-5
Resistance to dry heat (160°C) (depending on texture)	DIN EN 438-2	Grad	≥ 4
Resistance to wet heat (100°C) (depending on texture)	EN 12721	Grad	≥ 4
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 <sup>2</sup> )	ca. 1-2
Tensile strength longitudinal transverse	EN ISO 178	N/mm <sup>2</sup> N/mm <sup>2</sup>	140 100
Modulus of elasticity longitudinal transverse	EN ISO 178	N/mm <sup>2</sup> N/mm <sup>2</sup>	14.000 10.000
Surface resistance (antistatic behavior)	DIN EN 61340-2-3 (no static charge)	Ω	10 <sup>9</sup> - 10 <sup>11</sup>

Characteristics	Test method	Unit	Value
Fire behaviour RESOPAL Compact RESOPAL Compact F	DIN 4102-1 DIN 4102-1		B2 B1
RESOPAL Compact RESOPAL Compact F	EN 13501-1 EN 13501-1		D-s2, d0 B-s1, d0
Co-efficient of thermal expansion longitudinal transverse	DIN 51045 (+80/-20)	1/K 1/K	$0,9 \cdot 10^{-5}$ $1,6 \cdot 10^{-5}$
Thermal conductivity	DIN EN 12664	W/(m · K)	ca. 0,3
Calorific value	DIN 51900	MJ/kg	18 - 20

### 3. Storage & Transport

RESOPAL Compact must be kept in a closed storage area under normal indoor conditions (18-25°C and 50-65 % relative humidity).

Stacks of panels should be stored with full surface coverage, with their edges flush and horizontally positioned on a flat surface that has been covered with plastic foil. The top layer of each stack should also be fully covered with a sheet of foil and a protective plate flat down on it. In store rooms please protect the product against moisture, to avoid formation of steam between the panels during the storage.

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.