

# RESOPAL® WORKTOPS

## PRODUCT DATA SHEET



This product data sheet describes the composition of RESOPAL worktops and provides instructions for their handling, processing, use and disposal.

### 1. Material Description and Composition

RESOPAL worktops consist of a 28/38 mm chipboard, RESOPAL-HPL surface pursuant to EN 438, and water-resistant barrier on the reverse.

Substrate:	Chipboard of emissions class E1
Bonding:	PVAc dispersion adhesive (white glue; durability grading D 3 pursuant to DIN EN 204)
RESOPAL Surface:	RESOPAL - HPL pursuant to DIN EN 438-3 Decors and textures in line with current collection
Reverse:	Water-resistant counteracting paper
Front edge:	Milled, coated or profiled with post formed edge
Back edge:	Resin-impregnated paper edge
Seal:	Synthetic resin coating

### 2. Technical Data

	Test method Standard	Uni	Required value pursuant to EN 438-3 DIN 68930		RESOPAL® Worktops
Abrasion resistance	DIN EN 438-2, 10	Index	3		3
	DIN 68861-2	Stress group		2B	2B
Impact resistance*	DIN EN 438-2, 20	Index	3		3
	DIN EN 438-2, 20	N		≥ 15	≥ 15
Scratch resistance (structure-dependent)	DIN EN 438-2, 25	Index	4,3,2		4,3,2
	DIN 68861-4	Stress group		4B	4A,4B
Resistance to hot pots and pans (structure-dependent)*	DIN EN 438-2, 16	Rating	3 - 5		3 - 5
	DIN 68861-1 DIN EN 12722	Stress group		7B	7A,7B
Surface soundness	EN 311	N/mm <sup>2</sup>	≥ 1,0	-	≥ 1,2
Stain resistance	DIN EN 438-2, 26	Index	Group 1 + 2: ≥ 5 Group 3: ≥ 4		Group 1 + 2: ≥ 5 Group 3: ≥ 4
Chemical resistance	DIN 68861-1	Stress group		1B	1A,1B
Lightfastness	DIN EN 438-2, 27	Grey scale (EN 20105-A02)	4 - 5	-	4 - 5

\* For the properties impact resistance and resistance to hot pots and pans, the laminate was tested according to DIN EN 438-2 on a standardised chipboard.

	Test method Standard	Uni	Required value pursuant to		RESOPAL® Worktops
			EN 438-3	DIN 68930	
Formaldehydemission	DIN EN 16516	Klasse ppm			E1 ≤ 0,1

### 3. Transport and Storage

The guidelines of the general processing recommendations for RESOPAL-HPL apply to transport and storage; special safety measures are not necessary. According to transport regulations, RESOPAL worktops are not classed as hazardous materials; labelling as such is therefore not necessary.

### 4. Handling and Processing

When processing RESOPAL worktops, the proper tools must be chosen, and safety rules and processing principles customary for woodworking must be observed.

Due to the possibility of sharp edges, protective gloves must always be worn when handling RESOPAL worktops.

Processing RESOPAL worktops results in wood dust (mainly from soft woods) that can lead to skin and respiratory irritation. No long-term effects have been observed when the dust content of the breathing air at worksites is within the legally prescribed limits. Precautionary measures are limited to regular inspections of worksites. Worksites must be well-ventilated.

Dust may form explosive mixtures with air. For this reason, the accumulation of dust and dust turbulence, as well as sources of ignition, must be avoided.

Explosion limit: fine dust limit of 60 mg/m<sup>3</sup>.

### 5. Environmental and Health Aspects During Use

The decorative surfaces of RESOPAL worktops are insoluble and unmeltable. Formaldehyde emissions from RESOPAL-HPL are well below the legally permissible limits for wood materials. Due to their extremely low permeability, RESOPAL-HPL sheets are well-suited as a barrier against possible formaldehyde emissions from the substrate.

There is no migration that would affect food and contact of food with RESOPAL-HPL is therefore permitted and harmless.

The decorative surfaces are resistant to typical household solvents and chemicals; for this reason, this material has been used for many years in areas where cleanliness and hygiene are crucial.

The sealed RESOPAL-HPL surface can be disinfected easily with hot water, steam and disinfectants such as those used in hospitals and other special areas.

RESOPAL worktops are products and not chemical substances and thus the REACH regulation does not apply. However, it is still important to ensure information is exchanged with raw material suppliers regarding components relevant to REACH.

### 6. Care and Maintenance

RESOPAL surfaces are not corrosive nor do they oxidise. They require no further surface treatment (such as paint or varnish).

## 7. RESOPAL® Worktops in the Event of Fire

Because the substrate is formed from wood-based materials, RESOPAL worktops display fire behaviour similar to that of other wood products. When used as a building material, they are considered to be flammable without proof (class B2 pursuant to DIN 4102).

In cases of incomplete combustion, as with any other organic material, toxic substances can be found in smoke.

The same firefighting techniques can be used in fires involving HPL elements as in other wood-based building products.

Ignition temperature: approx. 330°C

Thermal decomposition: Possible above 160°C. As with wood, toxic gases can develop depending on the conditions of the fire (temperature, oxygen content, etc.).

Dangerous reactions: none

## 8. Energy Recovery

Due to its high energy value (15 - 18 MJ/kg)\*, RESOPAL worktops are particularly well-suited for thermal recycling. When completely combusted, they burn to water, carbon dioxide and nitrogen oxides at 700°C. RESOPAL worktops therefore meet prerequisites for energy recovery in accordance with §8 of the Recycling Management Act. The conditions for good combustion are met in modern, officially approved industrial incineration facilities. The ashes from these incineration processes can be brought to controlled landfills

## 9. Disposal

RESOPAL worktops can be disposed of in controlled landfills that currently comply with national and / or regional regulations.

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\* Comparison: Energy value of petroleum = 39 - 42 MJ/kg; coal = 28 - 31 MJ/kg.

All information contained in this product data sheet is based on the current standard of technical knowledge, but does not constitute a guarantee. There is no guarantee of suitability for particular uses or applications.