

RESOPAL® HPL & RESOPAL® Compact

CERTIFICATE OF CONFORMITY

Composition of RESOPAL® HPL and RESOPAL® Compact

RESOPAL manufactures HPL and Compact composed of layers of kraft and decorative paper impregnated with thermosetting resins. The combined action of heat ($\geq 120\text{ }^{\circ}\text{C}$) and high pressure ($\geq 5\text{ MPa}$) results in a product with excellent properties that complies with European standard EN 438. RESOPAL's HPL and Compact are sustainable products, since they are made up of 65% paper (cellulose fiber), a renewable resource obtained from timber harvested in sustainably managed forests.

RESOPAL products can contribute to the certification of projects according to the standards for environmentally friendly construction (DGNB, LEED, BREAM), typically as a part of a finished article or permanently installed product. They fulfill the European requirements for environmentally friendly construction, which focus on durability, responsibility, and the use of renewable resources.

As a wood-based product, the High-Pressure Laminate uses natural resources for more than 65% of its composition. The remaining 35% are thermosetting resins, which comply with the requirements of REACH EC 1907/2006 regulations in respect to chemical substances.

HPL and Compact are corrosion-and oxidation-resistant and do not require any additional chemical treatment or surface protection (such as lacquers or paints) and are allowed to come into direct contact with foodstuff.

We confirm - under RESOPAL responsibility - that RESOPAL uses raw materials in its products that are:

- free from toxic heavy metals: Antimony, barium, cadmium, chromium III, chromium VI, lead, mercury, selenium
- free of asbestos
- free of substances from the candidate list in a quantity requiring information ($\geq 0,1\%$ w/w)
- free of boron compounds $> 0,1\%$
- free of pentachlorophenol (PCP)
- free of Polycyclic Aromatic Hydrocarbons (PAH)
- free of solvent-based inks
- free of Nickel (EN1811)
- free of added urea-formaldehyde (NAUF)
- free of intentionally added "per- and polyfluoroalkyl substances" or "PFAS" substances listed in REACH Regulation (EU) 1907/2006 Annex XVII under listing 68
- free of nanoparticles

signed

i.V. M. Steimer

name

i.V. Dr. Michael Steimer

date

August 28, 2024

signed

i.V. M. Demmer

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i.V. Markus Demmer

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August 28, 2024

TRANSPARENT PRODUCT COMPOSITION

RESOPAL® HPL (0,6 -1,2 mm)

FUNCTIONALITY	COMPONENT	MASS %	COMPONENT CLASSIFICATION	Conformity Approved	COMPONENT COMPLIANCY REGULATIONS*
Decorative layer	decor paper	5 - 12	renewable mineral and organic	✓	RoHS; REACH/SVHC Candidate list; TSCA; Prop 65 free of conflict minerals (CMRT); free of PFAS; free of POP EUTR/EUDR free of "conflict minerals" (CMRT) MOSH
	♦ cellulose			✓	
	♦ pigments			✓	
	melamine resin	6 - 14		✓	
	♦ melamine-formaldehyde polymer		fossil-based	✓	RoHS; REACH/SVHC Candidate List; TSCA; Prop65 free of PFAS; free of POP LBC Red List Approved ¹⁾ C2C RSL List Approved ²⁾
Core layer	kraft paper, unbleached	52 - 59	renewable	✓	RoHS; REACH / SVHC Candidate List; TSCA; Prop65 EUTR/EUDR MOSH; CMRT; free of PFAS
	♦ cellulose (soda kraft paper)			✓	
				✓	
	phenolic resin	24 - 30	fossil-based mineral and fossil-based	✓	RoHS; REACH / SVHC Candidate List TSCA; Prop65; free of PFAS; free of POP LBC Red List Approved ¹⁾ C2C RSL List Approved ²⁾ IOS-MAT-0010
	♦ phenol-formaldehyde polymer			✓	
	♦ optional: fire-retardant additives (halogen-free)	approx. 4-7		✓	
Process auxiliaries	chemicals / additives	< 1 %	fossil-based fossil-based fossil-based	✓	RoHS; REACH/SVHC Candidate List; Prop65; free of PFAS; free of POP C2C RSL List Approved ²⁾
	♦ Plasticizer	approx. 0,50 - 0,75		✓	
	♦ Catalyst	approx. 0,1 - 0,2		✓	
	♦ Surfactants (release and wetting agent)	< 0,1	fossil-based	✓	
	♦ Silver borophosphate glass (antibacterial)	< 0,1	fossil-based	✓	BPR; C2C RSL List Approved ²⁾

*comply with the usable regulations & requirements

¹⁾ LBC Temp Exception RL-009- Formaldehyde

²⁾ Product compliance with RSL list regarding substances and their concentration (C2C)

Abbreviations/Sources:

RoHS: Restriction of Hazardous Substances Directive (EU-Guideline 2011/65/EU)

REACH: Regulation concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH Regulation 1907 / 2006 / EC)

SVHC Candidate List: Substances of Very High Concern (approval procedure from REACH regulation))

TSCA: Toxic Substances Control Act

Prop65/California Proposition 65: The Safe Drinking Water and Toxic Enforcement Act of 1986 / OEHHA gov.

CMRT: Conflict Minerals Reporting Template (Conflict minerals regulation EU 2017/821)

PFAS: Per- and Polyfluorinated Substances (REACH regulation (EU) 1907/2006 Anhang XVII)

EUTR: EU Timber Regulation; EUTR valid till Dec. 2024: New EUDR/EU-Deforestation Regulation

MOSH: Mineral Oil Saturated Hydrocarbons; free of mineral oil contaminations based on the European Norm DIN EN 16995:2017

BPR: Biocide Product Regulation((EU) Nr. 528/2012)

C2C RSL List: Cradle to Cradle Restricted List

IOS-MAT-0010: Declaration of chemical substances (IKEA)

POP: persistent organic pollutants - Regulation (EU) 2019/1021

TRANSPARENT PRODUCT COMPOSITION

RESOPAL® Compact (6 - 12 mm)

FUNCTIONALITY	COMPONENT	MASS %	COMPONENT CLASSIFICATION	Conformity Approved	COMPONENT COMPLIANCY REGULATIONS*
Decorative layer	decor paper	2 - 4	renewable mineral and organic	✓	RoHS; REACH/SVHC Candidate list; TSCA; Prop 65 free of conflict minerals (CMRT); free of PFAS; free of POP EUTR/EUDR free of "conflict minerals" (CMRT); MOSH
	◆ cellulose			✓	
	◆ pigments			✓	
	melamine resin	2 - 5		✓	
Core layer	◆ melamine-formaldehyde polymer		fossil-based	✓	RoHS; REACH/SVHC Candidate List; TSCA; Prop65; free of PFA LBC Red List Approved ¹⁾ C2C RSL List Approved ²⁾
				✓	
				✓	
				✓	
Process auxiliaries	kraft paper, unbleached	60 - 64	renewable	✓	RoHS; SVHC Candidate List; TSCA; Prop65 EUTR/EUDR MOSH; CMRT; free of PFAS
	◆ cellulose (soda kraft paper)			✓	
	phenolic resin	30 - 32		✓	
	◆ phenol-formaldehyde polymer			✓	
Process auxiliaries	◆ optional: fire-retardant additives (halogen-free)	approx. 5-8	mineral and fossil-based	✓	LBC Red List Approved ¹⁾ C2C RSL List Approved ²⁾ IOS-MAT-0010
				✓	
				✓	
				✓	
Process auxiliaries	chemicals / additives	< 1 %	fossil-based	✓	RoHS; REACH/SVHC Candidate List; Prop65; free of PFAS; free of POP C2C RSL List Approved ²⁾
	◆ Plasticizer	approx. 0,2 - 0,3		✓	
	◆ Catalyst	< 0,1		✓	
	◆ Surfactants (release and wetting agent)	< 0,05		✓	
Process auxiliaries	◆ Silver borophosphate glass (antibacterial)	< 0,05	fossil-based	✓	BPR; C2C RSL List Approved ²⁾
				✓	

*comply with the usable regulations & requirements

¹⁾ LBC Temp Exception RL-009- Formaldehyde

²⁾ Product compliancy with RSL list regarding substances and their concentration (C2C)

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