

RESOPAL® TRACELESS PREMIUM

TECHNICAL DATA SHEET

1. Material Description and Composition

RESOPAL Traceless Premium is a laminate panel that has an anti-fingerprint, satin-finished, low-reflection and soft-touch surface and is intended for use in interior finishing. RESOPAL Traceless Premium are sheets consisting of layers of fibrous cellulose material (normally paper), impregnated with thermosetting synthetic resins which harden when exposed to heat and high pressure. The process, defined as a simultaneous application of heat (> 120°C) and high specific pressure (> 5 MPA), enables the flowing and subsequent curing of the thermosetting resins to obtain a homogenous and non-porous material (bulk density > 1.4 g/cm³) with the required surface finish. In general, more than 60 % of the RESOPAL Traceless Premium sheet consists of paper and the remaining 30 to 40 % consist of synthetic resins. RESOPAL Traceless Premium meets the requirements of DIN EN 438-Part 3 and Part 4 (see Technical Data); however, because of the surface material that is used, it is not classified as a high-pressure laminate according to DIN EN 438.

2. Practical Advice on Application Methods

Due to the composition tungsten carbide tipped (hard metal/HM) tools must be used to work with the laminates described here.

The use of Dia tools is recommended for working with larger quantities. RESOPAL Traceless Premium is not postformable.

In addition, the usual handling and processing recommendations for RESOPAL HPL should be observed with regard to the storage, machining and processing of RESOPAL HPL.

RESOPAL Traceless Premium is suitable for vertical as well as horizontal applications.

RESOPAL Traceless Premium sheets can be used without reservation in accordance with their designated use in areas where food is handled and processed. There is no problem in their direct contact with all kinds of foodstuffs (see ISEGA Declaration of Non-Objection 44240 U17).

3. Properties

Surface	TP: silky matte appeal, soft tactile properties that feel good to the hands, resistant to dirt, fingerprints remain invisible	
Sizes	RESOPAL® Traceless Premium HPL	3050 mm x 1320 mm; 3650 x 1320 mm
	RESOPAL® Traceless Premium Compact	3050 mm x 1320 mm
Thickness	RESOPAL® Traceless Premium HPL	0.8 - 2.0 mm; one side decorative, reverse roughened
	RESOPAL® Traceless Premium Compact	6.0 - 13.0 mm; both sides decorative
Designs	0164 Jura Grey, 0188 Cool White, 0901 Black, 9410 Neutral White, 10630 Anthracite, D95 Graphite Grey	
Protective Film	0.8 - 2.0 mm	RESOPAL®-Traceless Premium surfaces are delivered with transport protection film
	6.0- 13.0 mm	RESOPAL®-Traceless Premium surfaces are delivered with transport protection film
Flammability	normal flammable Euroclass D-s2,d1 according to EN 13501	

4. Backing

When manufacturing composite elements with RESOPAL Traceless Premium, particular attention must be given to compensating for tension by including opposite pulling force. For this reason, it is recommended to use identical RESOPAL Traceless Premium material as backing. No liability can be accepted for any attempt to produce unsymmetrical composite elements. Before attempting to do so, it is recommended to try out the feasibility of such applications.

5. Technical Data

Properties	Test method	Properties	Unit	HPL	Compact
Surface				TP	TP
Density	ISO 1183		g/cm ³	1.4	1.4
Resistance to surface wear	DIN EN 438-2: 10	Resistance to abrasion	Initial wear point	≥ 200	≥ 200
Resistance to immersion in boiling water	DIN EN 438-2: 12	Increase in mass and thickness	% %	- -	≤ 2.0 ≤ 2.0
		Appearance	Rating	5	5
Resistance to water vapour	DIN EN 438-2: 14	Appearance	Rating	5	5
Resistance to dry heat (160 °C)	DIN EN 438-2: 16	Appearance	Rating	5	5
Dimensional stability at elevated temperature	DIN EN 438-2: 17	Cumulative dimensional change			
Lengthwise	DIN EN 438-2: 18		%	0.4	0.2
Crosswise			%	0.8	0.4
Resistance to wet heat (100°C)	DIN EN 438-2: 20	Appearance	Rating	5	5
Resistance to impact by small-diameter ball	DIN EN 438-2: 21	Spring force	N Index	≥ 25 3-4	- -
Resistance to impact by large-diameter ball	DIN EN 438-2: 23	Drop height Indentation diameter	mm mm	- -	1800 ≤10
Resistance to cracking under stress	DIN EN 438-2: 23	Appearance	Rating	≥ 4	≥ 4
Resistance to scratching	DIN EN 438-2: 25 DIN 68861-4	Force	Rating N	4-5 4-6	4-5 4-6
Resistance to staining Group 1 and 2: Group 3:	DIN EN 438-2: 26	Appearance	Rating Rating	5* 4	5* 4
Light fastness (Xenon-arc)	DIN EN 438-2: 27	Contrast	Grey scale (EN 20105-A02)	4-5	4-5
Gloss (reflectometer value 60°)	DIN EN ISO 2813			approx. 2-5	

*A longer exposure time of hot liquids (tea, coffee, etc.) can lead to slight stains on light surfaces.

All the information given in this product data sheet is based on current scientific knowledge but cannot be warranted. Suitability for specific purposes or applications cannot be guaranteed.