

PANOPREY® TOUCH - Acrylic Board

PRODUCT DATA SHEET

1. MATERIAL DESCRIPTION AND COMPOSITION

PANOPREY® TOUCH is in accordance with EN14322 and is intended for use in interior fitting and furniture.

The surface consists of a decorative paper coated with acrylic resin and thermoset with a high-tech curing process, which gives it a velvet TOUCH against fingerprints.

The substrate is a composite substrate of a standard chipboard core with a MDF top layer on both sides, providing robustness, easiness of machining while offering a quality aesthetic finish.

- machining user-friendly and qualitative (cutting, drilling, milling, and fixing behavior)
- robustness (high bending strength and modulus of elasticity / high resistance to loads, high durability)
- quality and longevity of the surface (impact resistance, surface aspect).

PANOPREY® TOUCH is available as a two-sided decorative panel with an anti-fingerprint surface (texture TCH) and as a one-sided decorative panel with an anti-fingerprint surface (texture TCH) on top side and a functional counterbalanced layer on the backside.

For one-sided decorative panel, the backing has a functional counterbalanced layer, which has neither decorative nor technical properties. The backing is available in 2 colors: black (for dark colors) or white (for light decors).

PANOPREY® TOUCH benefits from antibacterial features, complementary to cleaning and disinfection protocols. Antibacterial property contributes to surface hygiene by reducing microbial contamination.



- 1 Decor paper both sides, acrylic resin impregnated
- 2 composite substrate: standard chipboard core with a MDF top layer on both sides

2. FORMATS

- 280 x 207 cm

Full details of the availability of decors in different formats are available on our website www.polyrey.com or in our infoGuide brochure.

3. AREAS OF APPLICATION

PANOPREY® TOUCH is suitable for interior fitting and furniture for vertical use. Horizontal use is only suitable for low stressed surfaces on the responsibility of the fitter.

For applications with higher demands on flatness, we recommend the use of the symetrical (two sided) panels.

The technical values from the chart below (table 1 : Technical properties according to EN 14322) must be considered according to the application requirements.

4. TECHNICAL DATA

• TECHNICAL PROPERTIES ACCORDING TO EN 14322

Table 1: Technical properties according to EN 14322

PROPERTY	TEST METHOD	UNIT	PANOPREY® TOUCH
Physical properties, dimensions, and tolerances			
Density	EN 323	g/cm ³	640-650 ⁽⁴⁾
Moisture content (ex-factory)	EN 322	%	8 +/-3
Thickness tolerance	EN 14323	mm	-0,3 / +0,5 mm
Length and width tolerance	EN 14323	mm	+/- 5
Straightness tolerance	EN 324-1 & 2	mm/m	≤ 1,5
Squareness tolerance	EN 324-1 & 2	mm/m	≤ 2
Flatness tolerance (thickness 19 mm)	EN 14323	mm/m	≤ 2*
Mechanical properties			
Resistance to impact by 324g ball	EN 14323	mm Drop height	≥ 800
		Indent diameter	≤ 10
Bending strength	EN 310	N/mm ²	14
Modulus of elasticity	EN 310	N/mm ²	2100
Internal cohesion	EN 319	N/mm ²	0,35
Surface properties of TB ⁽¹⁾ (decorative side)			
Dirts, spots, etc.	EN 14323	mm ² /m ²	≤ 2
Fibers, hairs, scratches		mm/m ²	≤ 20
Edge damage	EN 14323	mm	≤ 10
Resistance to cracking	EN 14323	Class	5
Abrasion resistance	EN 14323	Revolutions	≥ 150
	EN 14323	Class	3A
Scratch resistance	EN 14323	N	≥ 1,5 N
Resistance to staining	EN 14323	Class ⁽²⁾	≥ 3 ⁽³⁾
		Group 1	
		Group 2	
Light fastness (xenon arc)	EN 14323	Grey scale rating	4 - 5

(1) Surface properties are only for the TB surface. The backing is a functional counterbalanced layer, which has neither decorative nor technical properties

(2) Rating 5 : no change; Rating 4 : slight change visible at certain viewing angles; Rating 3 : moderate change; Rating 2 : marked change or surface blistering; Rating 1 : Surface layers delamination.

(3) A longer exposure time of hot liquids (e.g., tea, coffee), strongly staining substances (e.g., red wine, iodine, spices) may leave slight staining on light-colored surfaces. To avoid permanent staining, these stains must be removed immediately.

(4) Indicative value

*For applications with higher demands on flatness, we recommend the use of the symetrical (two sided) panels.

5. CERTIFICATIONS AND TESTS

Table 2: Certifications and test reports

PROPERTY	TEST METHOD	UNIT	PANOPREY® TOUCH
Fire behaviour ⁽⁵⁾	EN 13501-1	Euroclass	D-s2, d0 ⁽⁶⁾
Building product			
Calorific value	EN ISO 1716	MJ/kg	16
Formaldehyde Emission	EN 16516	Classification	E1 ≤ 0.1 ppm (≤ 124 µg/m ³)
Emission VOC (Volatile organic compounds)	ISO 16000-9	Emission class according to French regulation (Décret no 2011-321)	A (scenario wall)
Environmental product declaration (EPD/FDES) ⁽⁷⁾	ISO 14025 EN 15804	Available	Yes
Antibacterial effect ⁽⁸⁾	JIS Z 2801 ISO 22196	Reduction in %	99.9
PEFC ⁽⁹⁾		Certification	Upon request
FSC® ⁽⁹⁾		Certification	Upon request

(5) Consider details (e.g., Classification report, Official Journal of the European Union); e.g., validity in combination with substrate, adhesive system

(6) Expected building material class (no classification report available)

(7) Environmental product declaration on INIES and IBU data basis

(8) Complies with BPR Biocidal Regulation EU Nr. 58 2012

(9) Please specify with your order

6. TRANSPORT AND STORAGE

PANOPREY® TOUCH must be transported and stored flat, horizontal, with full-surface contact and on a sufficiently large pallet.

PANOPREY® TOUCH panels are not dangerous goods as defined by transport regulations, therefore labeling is not required.

Panels must be stored in a closed storage area under normal indoor conditions (10–30 °C and 40–65 % relative humidity), and protected against moisture and mechanical damage, with suitable protection. The protection placed on top of the pallet must be maintained whenever panels are removed from the stack. If the panels are stored for a long period of time, ensure flat storage, and place a panel on top to weigh on the panel, otherwise the panels may warp or deform.

On wooden pallets, use a protection panel on bottom (chipboard or MDF/HDF board of at least 12mm above/below). Isolated panels and top / bottom panel on the pallet are more sensitive to environmental influences.

PANOPREY® TOUCH are filmed on both sides. This does not dispense the customer in any way from a prior incoming goods inspection.

The side with the texture TOUCH has a Wilsonart protective film (W) and for the one-sided version the backing has a neutral film. The protective film must be maintained on both sides during machining operations until installation to avoid any risk of scratches and dirt which can mark the surface. It is the transformer's responsibility to check machinability beforehand.

In case of obligation to remove the protective film, use a protective interlayer between the panels (recyclable paper or plastic sheet).

The shelf life of the protective film is a maximum of 6 months after the date of delivery.

7. HANDLING AND MACHINING

Before processing, please check the product for damage and visual defects. In order to guarantee the final appearance of our products, it is also imperative to check the color and appearance of the panels in relation to each other (decor/texture). However, slight deviations in decor and texture are inherent to the production process and must be accepted.

Also check that the direction of production is taken into account. The direction of production has an influence on dimensional variation, as well as on mechanical strength and appearance due to light reflection. Panels must be laid in the same direction.

Due to the different production technologies used for each product (e.g. POLYREY HPL®, REYSIPUR®, PANOPREY® and MONOCHROM®), there may be slight visual and tactile differences between different product types and formats, even for identical decor/structure combinations.

PANOPREY® TOUCH (one-sided decorative) are non-symmetrical. This asymmetry can lead to deviations in flatness within the tolerances of 2mm/m, which must be considered depending on the application.

The usual safety regulations regarding dust removal and fire protection must be observed when processing PANOPREY® TOUCH panels. Due to possible sharp edges, protective gloves should always be worn when handling PANOPREY® TOUCH panels. Contact with dust does not cause any issues; nevertheless, there are a limited number of people who may have an allergic reaction to processing dust of all kinds (and therefore also to wood board dust).

PANOPREY® TOUCH panels are wood/cellulose-based products, so the dimensions constantly adapt to the climatic environmental conditions.

The product can be easily processed with woodworking machines. For a suitable tool recommendation of your individual machining please contact the tool manufacturer directly.

The protective film must be removed simultaneously on both sides.

• CONDITIONING

PANOPREY® TOUCH must be conditioned before processing (≥ 3 days). A good conditioning is achieved in a moderate interior climate (18-25 °C and 40-65 % relative humidity). These conditions are also recommended for the location where the product will be later used. If PANOPREY® TOUCH be exposed to consistently low or high humidity during its subsequent use, it is advisable to expose the panels to a correspondingly low or high level of humidity or increased temperature during conditioning.

More information on the handling and machining of PANOPREY® TOUCH can be found in the Datasheet Machining and Installation Guidelines for PANOPREY® TOUCH.

8. CLEANING AND CARE

PANOPREY® TOUCH surfaces do not require special care due to their homogenic and resistant surface, even too many substances/chemicals (see Chemical resistance data sheet). Surfaces and edges require no further treatment (e.g., with lacquers, paints, oils, waxes etc.), as they are neither corrosive nor oxidized.

For residue-free cleaning of PANOPREY® TOUCH surfaces, these four steps must be followed:

- 1- Choose the appropriate cleaning aids (cloth/sponge/brush) – depending on the structure
Choose the appropriate cleaning agent/solvent – depending on dirt residues
- 2- Cleaning of the surface with the appropriate cleaning aids and cleaning agents/solvents
- 3- Rinse of all cleaning agent/solvent with warm water
- 4- Dry the surface with a soft cloth after cleaning

Clean the entire surface without too much “pressure” to avoid polish marks.

Due to the microstructure of TOUCH surface, it is important to regularly clean the surface according to the above instruction and clean with warm water to avoid the accumulation of dirt and residue of cleaning agent/solvent into the tight structure folding.

In the case of stubborn stains on PANOPREY® TOUCH surfaces with a deep structure or a narrow structural fold, the dirt can be removed using a damp melamine sponge or microfiber cloth. Other stubborn stains (e.g., varnish) can be removed with organic solvents (e.g., ethanol, isopropanol, acetone, etc.).

Abrasive cleaning aids (e.g., scouring powder, steel wool) must not be used, as these alter the surfaces. At the beginning carry out cleaning tests with each cleaning agent/solvent on non-visible areas.

Strongly staining substances (e.g., wine, coffee, tea, mustard, curcuma etc.) may leave slight stains on the surface of PANOPREY® TOUCH panels. To avoid permanent staining these stains must be removed immediately.

The visual perception of traces of daily use (e.g., gloss deviations, dirt, and grease stains etc.) are influenced by the decor and surface texture. The traces of use are more visible on smooth surfaces and become even more visible in combination with dark decors.

Due to the surface hardness of TOUCH, it is possible to remove “traces of daily use” with the help of a microfiber cloth or a melamine sponge (magic sponge).

*Traces of daily use are only superficial and visual changes (no scratches) that occur due to daily use, wear, and tear, aging or use under normal conditions. Scratches, which are deeper in the structure, caused by abrasive agents, pointed or sharp objects, are irreversible damage to the surface POLYREY TOUCH.

For further information, please refer to the Care Manual and the Chemical resistance data sheet available at www.polyrey.com.

9. SUSTAINABILITY AND ENVIRONMENT

Polyrey is certified according to EN ISO 14001 and EN ISO 50001.

The surface of PANOPREY® TOUCH is a cured, and therefore inert, duroplast with high barrier effect against formaldehyde emission.

The release of formaldehyde from PANOPREY® TOUCH panels (≤ 0.05 ppm in testing according to EN 16516) are far below the legally permissible level (≤ 0.1 ppm regard to German requirements (Chemikalienverbotsverordnung)).

Furthermore, the emissions of volatile organic compounds (VOC) are so low that, depending on the test scenario, the following classifications according to the French VOC regulation have been given by Eurofins test reports.

Class A (with the test scenario for walls with a loading factor of $1.0 \text{ m}^2/\text{m}^3$)

Collective Product Declaration (EPD/FDES) are available. Using clearly defined parameters, it provides quantitative, verified, and objective information about the effects of decorative panels on the environment and could be used for sustainable building certification. (e.g., LEED, BREEAM). The entire lifecycle of panels (raw material extraction, production, transport, use, disposal) is taken into consideration.

PANOPREY® TOUCH panels can be offered as a PEFC or FSC® certified product on request. In addition all the paper and panels used comes from uncontroversial or controlled sources and meets the requirements of EUTR Regulation (EU) No. 995/2010.

PANOPREY® TOUCH contains 40% "post-consumer" recycled wood in the substrat and thus has a recycled content of 40% according to the international standard ISO 14021-2016.

PANOPREY® TOUCH panels are articles and not a chemical substance, therefore the REACH regulation is not applicable. However, it is important to ensure the exchange of information between Resopal and the raw material suppliers regarding REACH-relevant components (for more information, please refer to the REACH statement). We hereby confirm that no substance from the Candidate List is used in our above-mentioned products in a quantity requiring information ($\leq 0,1\%$ w/w) and that we comply with the requirements of Annexes XIV and XVII of the REACH Regulation.

10. DISPOSAL AND ENERGY RECOVERY

PANOPREY® TOUCH panels can be disposed on controlled waste disposal facilities (e.g., landfills) that comply with the applicable national and regional regulations. According to the European Waste List Regulation, wood based panels waste is classified with code 030105 (wood wastes) or 200301 (mixed municipal waste).

PANOPREY® TOUCH panels are particularly suitable for thermal recycling due to its high calorific value (16 MJ/kg). During complete combustion at 700 °C, the boards burn to form water, carbon dioxide and nitrogen oxides. The conditions for good combustion are met in modern, officially approved industrial incineration facilities. The ashes from these incineration processes can be taken to controlled landfills.

PANOPREY® TOUCH panels can be recycled. By grinding the product, the wood particles can be reused to produce new chipboards.

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