



ECONOMY ♦ EXCELLENCE ♦ ETHICS

**CHEM+**

CHEMICAL  
RESISTANCE  
MAKES ALL  
THE DIFFERENCE.



**UNBELIEVABLE SURFACES**  
*by Merino*

## **Disclaimer**

“ For Visual representation only.  
Design Range & Finishes are subject  
to change without prior notice.  
Actual Design & Color may vary  
when viewed in digital format.  
Please contact your nearest Merino  
Dealer / Merino Team for order  
fulfillment”

A background image featuring laboratory glassware and a small plant. In the top left, a beaker contains blue liquid with a metal ring inside, next to a small potted aloe vera plant. In the middle left, a round-bottom flask contains red liquid with a glass rod. In the bottom left, a volumetric flask contains green liquid with a glass rod. In the bottom right, a beaker contains blue liquid.

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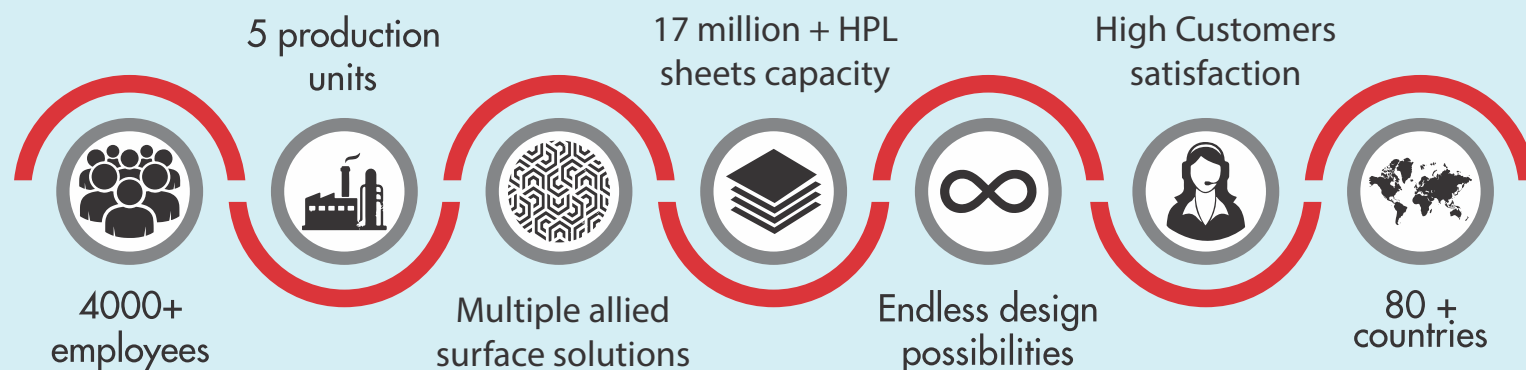




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## ABOUT MERINO

The Merino Group is a leading player in the laminates and panel industry. The first product was plywood, launched in 1974 and later it spread its wings into high-pressure decorative laminates in 1981. The Group has diverse business interests expanding into Interior Architectural Products, Information Technology and Food & Agro business. Over 4000 employees, 5 production units and multiple allied surface solutions having endless design possibilities are what ensure a consistent range of superior quality products and the Group's continuous significant growth in the challenging market scenario. With innovation and perfection at its core, Merino commits to the highest manufacturing standards with a strong customer support.



## CERTIFICATIONS





# THE *Un*-TARNISHED CHEMICAL RESISTANT (CHEM+)

Chemical resistant laminates.

Chem+ is a specially manufactured laminate which is treated with Electron Beam to withstand harsh chemicals like acids, alkalis and reagents. The superior resistance to chemicals makes it durable and suitable to be used in disposable areas in laboratories. Its outstanding quality and appearance give you the freedom to furnish creatively.

27081  
White

\*Image shown are for reference, actual product may vary.

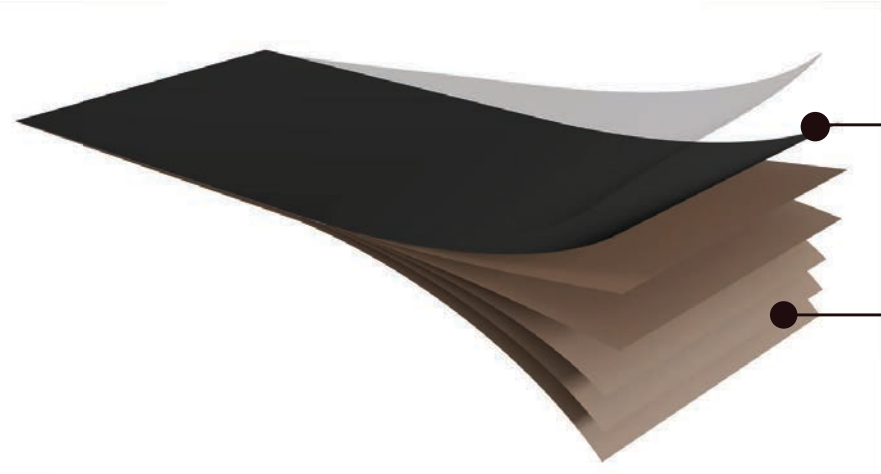


**HIGHLY  
CHEMICAL  
RESISTANT**



27081  
White

# Un-TARNISHED COMPOSITION



**EB CURED DÉCOR PAPER LAYER**  
Special grade, Electron Beam Cured Décor paper

**KRAFT PAPER LAYER**  
Phenol Formaldehyde resin is used to impregnate high grade Kraft Paper.

# Un-TARNISHED FEATURES

**HIGHLY  
CHEMICAL  
RESISTANT**



**HIGH  
SCRATCH  
RESISTANT**



**HIGH  
STAIN  
RESISTANT**



**HIGHLY  
DURABLE**





# Un-TARNISHED APPLICATION

For both horizontal and vertical surfaces.

R&D/Pathological Labs

27081  
White

\*Image shown are for reference, actual product may vary.



27089  
Grey

Worktops

\*Image shown are for reference, actual product may vary.





27079  
Grey

27081  
White

Premium Residential

Image shown are for reference, actual product may vary.





Chemistry Lab

27089  
Grey

\*Image shown are for reference, actual product may vary.



# Un-TARNISHED SECTORS

Chem+ is one of a kind laminates range which is high on economic value and can be used in disposable areas in laboratories without compromising on aesthetic appeal.

It is an apt choice for sectors like – R&D/pathological labs, hospitals and healthcare, public catering, premium residential, offices and schools.

Restaurant

27089  
Grey

\*Image shown are for reference, actual product may vary.





Hospitals and Healthcare

\*Image shown are for reference, actual product may vary.





Public Catering





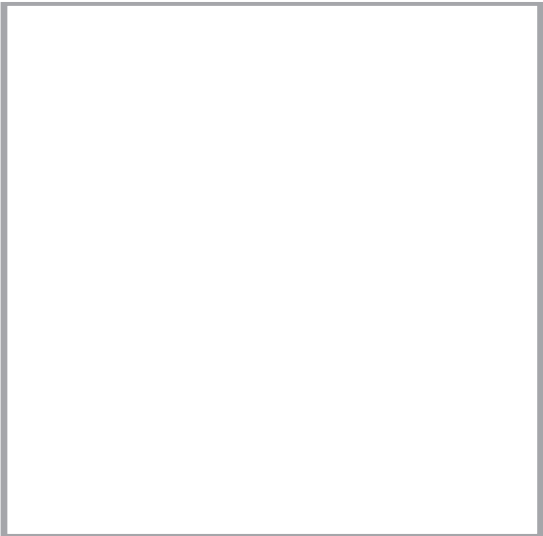
Schools







# Un-TARNISHED RANGE



27081 White



27089 Grey



27066 Black

Property	Thickness	Sizes in feet	Finishes	Designs
Chem+	1 mm	8 X 4 and 10 X 4	Chem pearl	3 designs

1) **List of Chemicals: Merino Chem.+ Lab grade Laminate is Resistance to:**

- A) ACIDS: 1. Glacial Acetic Acid 99 % 2. Formic Acid-85% 3. Hydrochloric Acid-36% 4. Nitric Acid-65 % 5. Sulfuric Acid-96% 6. Citric Acid-10%
- B) ALKALIS: 1. Ammonium Hydroxide-28 % 2. Potassium Hydroxide-15% 3. Sodium Hydroxide- 40% 4. Sodium Sulphide-15%
- C) GENERAL REAGENT: 1. Sodium Hypochlorite-5 % 2. Hydrogen Peroxide-3% 3. Sucrose-50% 4. Mineral Oil 5. Vegetable Oil 6.Ethylene Glycol 7.Benedics solution. 8.Trisodium Phosphate
- D) SOLVENT: 1Acetone 2. Benzene 3. Carbon tetrachloride 4. Ethyl Acetate 5. Ethyl Methyl ketene 6.Tolune 7.Xylene.
- E) HOSPITAL & HELTH CARE: 1Amyl Alcohol 2. Aniline Blue 3. Chloroform 4. Ethyl Alcohol 5. Iodine Tincture 6.Isopropyl Alcohol 7.Tincture Benzene Compound 8. Zink Oxide 9. PVP Iodine Swab.
- F) HOUSE HOLD PRODUCTS: 1. Ceramic Cook top Cleaner 2. Cook top cleaning cream 3. Chlorine Bleaches4. Coffeepot cleaners 5. Hair coloring 6. Nail Polishes 7. Shoe Polishes 8. Lime Removers 9. Metal cleaners 10. Stain remover 11. Rust Remover 12. Oven Cleaners 13. Toilet Bowl Cleaners. 14. Sami-flush 15. Pencil 16. Wax Crayon. 17. Yellow Mustard.

2) **Durability- Merino Chem. + Lab Grade Laminate provide a highly durable surface And has better Abrasion & Scratch Resistance.**

# Test Values of Merino Chem+ Grade Laminate as per (EN438-3)

Thickness :1.00mm

Properties	Test Method as per EN 438-2 CLAUSE NO.	Property or attribute	Unit (max or min)	Values as per EN 438-3	Merino Value
Thickness Maximum Variation	5		mm	±0.10mm	±0.10mm
Length & Width	6		mm	+10mm -0.0mm	+10mm -0.0mm
Density	EN ISO 1183	Density	g/cm <sup>3</sup>	≥1.35	>1.35
Resistance to Surface wear	10	Wear Resistance	Revolution (min)	≥350	>500
Resistance to Impact by Small diameter Ball	20	Spring Force	N(min)	≥20	>20
Resistance to Scratching	25	Force	Rating (see annex a)	3	≥3
Dimensional stability at elevated temperature	17	Cumulative dimensional change	% long	≤ 0.55	<0.45
			% Cross	≤ 1.05	< 0.90
Resistance to immersion in boiling water	12	Appearance	Grade (min)	4	>4
Resistance to dry Heat at 180°C	16	Appearance	Grade (min)	4	>4
Resistance to Staining	26	Appearance	Rating Group-1&2	≥5	5
			Group-3	≥4	≥4
Resistance to water vapor	14	Appearance	Grade (min)	4	>4
Light Fastness (Xenon arc)	27	Contrast	Gray Scale Rating	4 to 5	>4
Resistance to cigarette burn	30	Appearance	Grade (min)	3	>3
Resistance to Cracking under stress (optional)	23	Appearance	Grade (min)	4	>4

**Limited warranty**  
Merino Industries Limited & Merino Panel Product Ltd. warrant that, under normal use & service, the material & workmanship of their products shall confirm to the standards set forth on the applicable technical data sheet for limited life time warranty from the date of sale to the first consumer purchaser. Dealers & distributors are provided with the technical data sheets, which contain specific standards of performance of the product. In the event that a Merino Industries Limited or a Merino Panel Product Limited product does not perform as warranted, the first purchaser's sole remedy shall be limited to repair or replacement of all or any part of the product, which is defective, at the manufacturer's sole discretion. This warranty is not transferable, and expires upon resale or transfer by first purchaser. This warranty shall not apply to defects or damage arising from any of the following: Accidents, abuse or misuse, exposure to extreme temperature, improper fabrication or installation, improper maintenance. No other warranties, expressed or implied, are made. Under no circumstances shall the manufacturer be liable for any loss or damage arising from the purchase, use, or inability to use the product, or for any special, indirect, incidental, or consequential damages.No fabricator, installer, dealer, agent or employee of Merino Industries Limited and Merino Panel Product Limited has the authority to modify the obligation or limitation of this warranty.

Samples, Not for Sale.

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