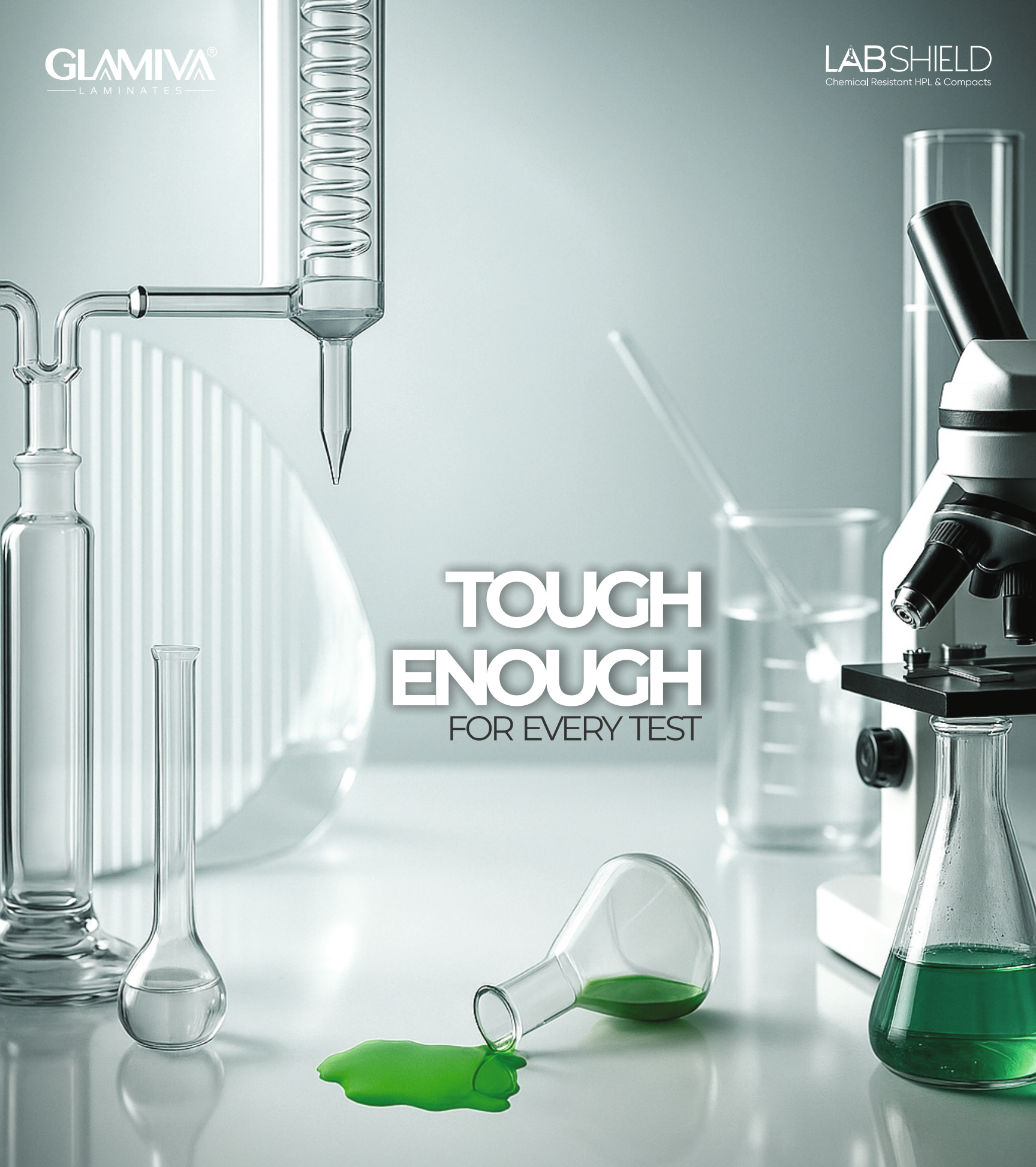
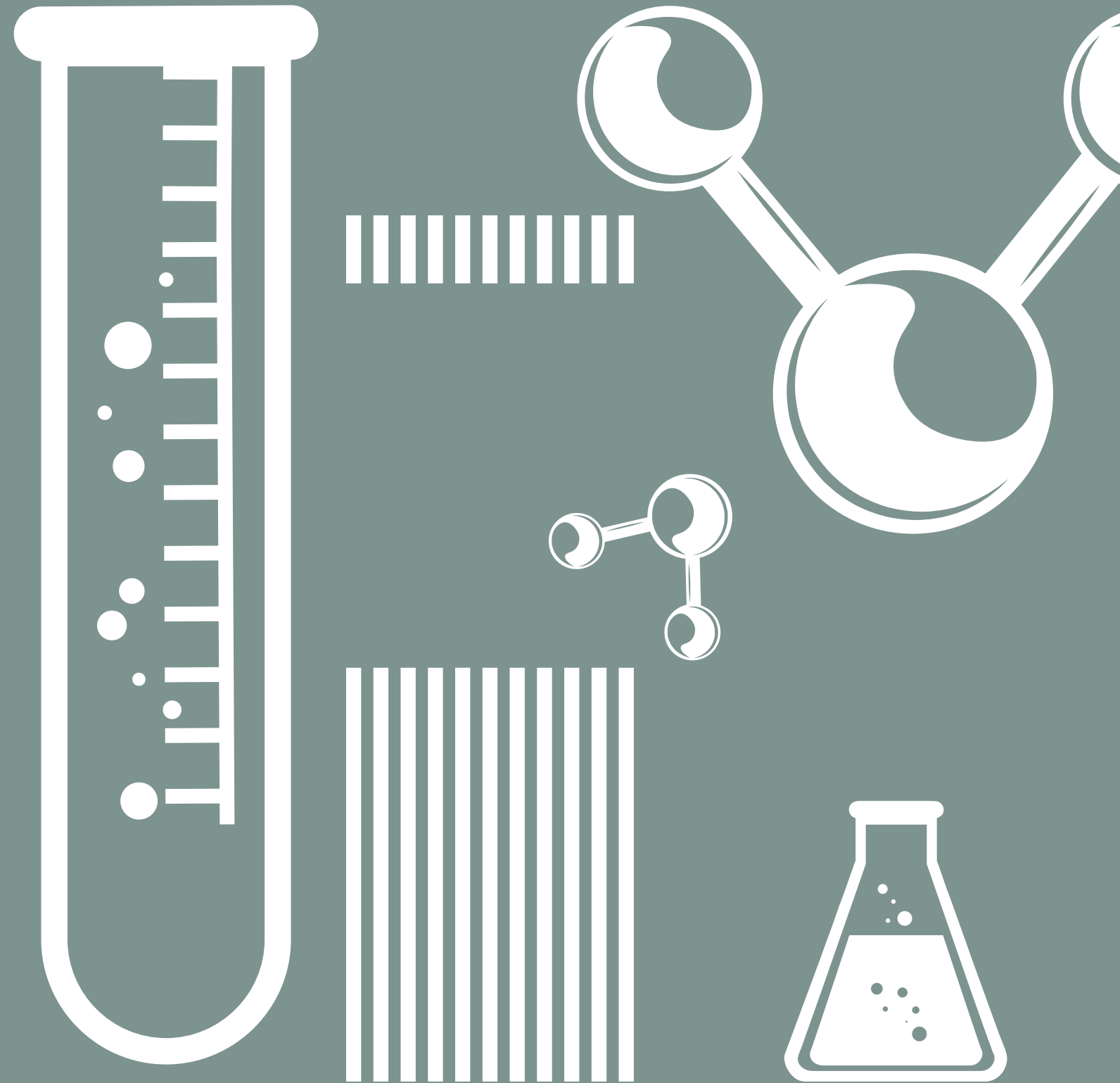


**TOUGH
ENOUGH**
FOR EVERY TEST





GLAMIVA'S LABSHIELD IS EQUIPPED WITH ADVANCED TECHNOLOGY

that ensures surfaces remain resilient against chemical corrosion, surpassing the limitations of traditional materials such as epoxy, slate, and stainless steel.

The protective prowess of Glamiva's LabShield is maintained through EBC (Electron Beam Curing) technology, making it able to withstand exposure to chemicals, solvents, and bases. It is ideal for resisting stains from a wide array of substances, including general-purpose chemicals, biomedical reagents, biological spills and waste, petrochemical products, food items, edible oils, beverages, and dairy products.

Glamiva's LabShield provides a robust and economical solution, guaranteeing utmost safety and convenience for your environment.



CONSTRUCTION TECHNIQUE

COMPACTS

EB Cured Decor Paper Layer

Special grade, Electron Beam Cured Decor paper that has been impregnated with specially formulated acrylic resin.

Kraft Paper Layers

Phenol Formaldehyde resin is used to impregnate high grade Kraft Paper.

Balancing Decor Paper

Balancing decor paper to ensure flatness.

LAMINATE

EB Cured Decor Paper Layer

Special grade, Electron Beam Cured Decor paper that has been impregnated with specially formulated acrylic resin.

Kraft Paper Layers

Phenol Formaldehyde resin is used to impregnate high grade Kraft Paper.



APPLICATION AREAS



EDUCATIONAL LABORATORIES



PHYSICIAN & DENTISTS EXAMINING & TREATMENT ROOMS



LABORATORIES & PATHOLOGIES



PRODUCT TESTING



BEAUTY SALONS



NURSE'S STATIONS

FEATURES



HIGHLY STAIN RESISTANT



ANTI BACTERIAL



HIGHLY DRY HEAT RESISTANT



HIGHLY CHEMICAL RESISTANT



HIGHLY ABRATION RESISTANT



HIGHLY SCRATCH RESISTANT

PRODUCT OFFERING



DECOR/TEXTURES

AVAILABLE IN 3 DECORS & SUEDE TEXTURE

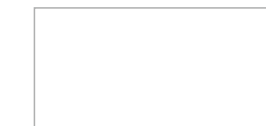


1525MM X 3660MM



THICKNESS 1MM TO 30MM

SHADES OF LABSHIELD



8822 WHITE



8833 GREY



8811 BLACK

TEST RESULTS

ACIDS	LEVEL	SOLVENTS	LEVEL	GENERAL REAGENTS	LEVEL	STAINS & INDICATORS	LEVEL
Acetic Acid, 98%	0	Acetate, Amyl	0	Cresol	0	Iodine, Tincture	0
Acid Dichromate, 5%	0	Acetate, Ethyl	0	Furfural	0-1		
Chromic Acid, 60%	0	Acetone	0	Hydrogen Peroxide, 30%	0		
Dichloroacetic Acid	0	Alcohol, Butyl	0	Napthalene	0		
Formaldehyde, 37%	0	Alcohol, Ethyl	0	Silver Nitrate, Saturated	0		
Formic Acid, 90%	0	Alcohol, Methyl	0	Sodium Sulfide, Saturated	0		
Hydrochloric Acid, 37%	0	Benzene	0	Zinc Chloride, Saturated	0		
Hydrofluoric Acid, 48%	0	Carbon Tetrachloride	0	Urea 5%	0		
Nitric Acid, 20%	0	Chloroform	0	Vegetable Oil (Olive)	0		
Nitric Acid, 30%	0	Dimethylformanide	0	Water	0		
Nitric Acid, 70%	0-1	Dioxane	0	Mineral Oil	0		
Phenol, 90%	0	Ethyl Ether	0	Kerosene	0		
Phosphoric Acid, 85%	0	Gasoline	0				
Sulfuric Acid, 33%	0	Methyl Ethyl Ketone	0				
Sulfuric Acid, 77%	0-1	Methylene Chloride	0				
Sulfuric Acid, 77% and Nitric	0-1	Monochlorobenzene	0				
Acid 70%, equal parts	0-1	Toluene	0				
Sulfuric Acid, 96%		Trichloroethylene	0				
		Xylene	0				

LEGEND	LEVEL 0 No Detectable Change	LEVEL 1 Slight Change in colour or gloss.
	LEVEL 2 Slight surface etching or severe staining.	LEVEL 3 Pitting, Cratering, swelling, or erosion of coating, obvious and significant deterioration

Tested as per the SEFA 3-2020

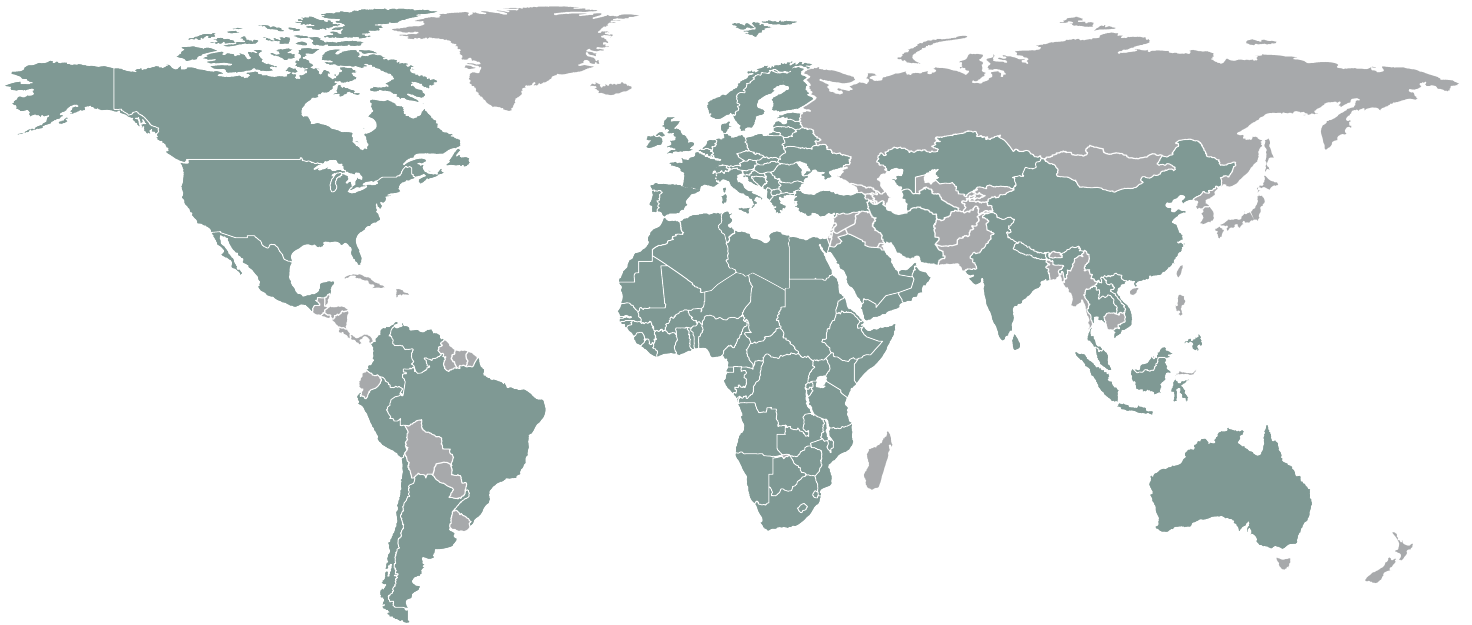
LABSHIELD TECHSPECS

S. NO.	PROPERTIES	UNIT	TEST METHODAS PER EN 438 Part 2 & 4:2016	SPECIFIED VALUES	TYPICAL GLAMIVA RESULTS	SPECIFIED VALUES	TYPICAL GLAMIVA RESULTS
1	CLASSIFICATION		EN438-4-4	COMPACT GENERAL PURPOSE Standard, CGS		COMPACT GENERAL PURPOSE FLAME-Retardant, CGF	
	Surface Coating			ELECTRON BEAM CURED CHEMICAL RESISTANT RESIN			
				Available in Black and Brown colour cores. Unicore optional.			
	Size Offered	mm		1525mm x 3660mm - Both or Single size to suit multiple cut sizes			
2	Surface Quality	mm ² /m ²	EN 438-4, 6.2.4.2	1.0 (max.)	Complies	1.0 (max.)	Complies
3	Fibers, Hairs & Scratches	mm/m ²		10.0 (max.)	Complies	10.0 (max.)	Complies
4	Thickness & Maximum Variation	mm	EN 438-2- 5	5.0 ± t < 8.0mm : ± 0.40 mm	5.0 ± t < 8.0mm : ± 0.20	5.0 ± t < 8.0mm : ± 0.40 mm	5.0 ± t < 8.0mm : ± 0.20
				8.0 ± t < 12.0mm : ± 0.50 mm	8.0 ± t < 12.0mm : ± 0.24	8.0 ± t < 12.0mm : ± 0.50 mm	8.0 ± t < 12.0mm : ± 0.24
				12.0 ± t < 16.0mm : ± 0.60 mm	12.0 ± t < 16.0mm : ± 0.28	12.0 ± t < 16.0mm : ± 0.60 mm	12.0 ± t < 16.0mm : ± 0.28
				16.0 ± t < 20.0mm : ± 0.70 mm	16.0 ± t < 20.0mm : ± 0.36	16.0 ± t < 20.0mm : ± 0.70 mm	16.0 ± t < 20.0mm : ± 0.36
				20.0 ± t < 25.0mm : ± 0.80 mm	20.0 ± t < 25.0mm : ± 0.42	20.0 ± t < 25.0mm : ± 0.80 mm	20.0 ± t < 25.0mm : ± 0.42
5	Length & Width	mm	EN 438-2- 6	+10mm /-0mm	+5mm /-0mm	+10mm /-0mm	+5mm /-0mm
6	Flatness	mm/M	EN 438-2- 9	5.0 (max.)	Complies	5.0 (max.)	Complies
7	Edges Straightness	mm/M	EN 438-2- 7	1.5 (max.)	≤ 1	1.5 (max.)	≤ 1
8	Edges Squareness	mm/M	EN 438-2- 8	1.5 (max.)	Complies	1.5 (max.)	Complies
9	Resistance to Dry Heat at 160° C	Rating	EN 438-2-16	4 (min.)	5	4 (min.)	5
10	Resistance to Surface Wear	Rev.	EN 438-2-10	350 (min.)	450 (min.)	350 (min.)	450 (min.)
11	Resistance to Water Vapour, Appearance	Rating	EN 438-2-14	4 (min.)	5	4 (min.)	5
12	Resistance to Immersion in Boiling Water (2 hours)		EN 438-2-12				
	a) Mass Increase	%		2.0 (max.)	0.62	2.0 (max.)	0.65
	b) Thickness Increase	%		2.0 (max.)	0.75	2.0 (max.)	0.72
	c) Surface appearance	Rating		4 (min.)	5	4 (min.)	5
	d) Edge appearance			4 (min.)	4	4 (min.)	4
13	Dimensional Stability at Elevated Temperature		EN 438-2-17				
	a) Longitudinal	%		0.30(max)	0.10	0.30(max)	0.18
	b) Transverse	%		0.60(max)	0.21	0.60(max)	0.38
14	Resistance to Impact by Large Diameter Ball		EN 438-2-21				
	a) Drop Height	mm		1800	2000	1800	2000
	b) Diameter of Indentation	mm		10(max.)	6	10 (max.)	6
15	Resistance to Scratching, Force	Rating	EN 438-2-25	3(min.)	4.5	3 (min.)	4.5
16	Resistance to Group 1 & 2 Staining	Rating	ELI438-2-26	5 4	5 ≥ 4	5 4	5 ≥ 4
	Chemical & Stain Résistance	Rating	SEFA 8.1-PL-2010	Not more than	Complies	Not more than	Complies
	Resistance to Wet Heat (100°C), Appearance	Rating	EN 438-2-18	4 (min.)	5	4 (min.)	5
17	Resistance to Wet Heat (100°C), Appearance	Rating	EN458-2-24	4 (min.)	5	4 (min.)	5
18	Resistance to Crazing, Appearance	Rating	-	-	No requirement in the latest spécification		
19	Resistance to Cigarette Burns	Rating	-	-	No requirement in the latest spécification		
20	Flexural Modulus	Mpa	EN ISO 178:2003	9000 (min.)	11000	9000 (min.)	11000
21	Flexural Strength	Mpa	EN ISO 178:2003	80 (min.)	100	80 (min.)	100
22	Tensile Strength	Mpa	EN ISO S27-2:1996	-	No requirement in the latest spécification		
23	Light Fastness (Xenon Arc), Grey Scale	Rating	EN 438-2 -27	4 to 5	Complies	4 to 5	Complies
24	Density	gm/cm3	EN ISO 1183-1:2004	1.35 ± 0.05	1.4 ± 0.05	1.35 ± 0.05	1.4 ± 0.05
25	Resistance to fixing (Screw pull out strength) - 8.0mm thick board - 10.0mm thick board & above	N	ISO 13894-1:9	3000 (min.)	>3000	3000 (min.)	>3000
			ISO 13894-1:9	4000 (min.)	>4000	4000 (min.)	>4000
26	Thermal Conductivity / Resistance	W/m²K	EN-12524:2000, EN-12664:2001	-	0.24	-	0.24
27	Release of Formaldehyde		EN-717-2:2006 ISO 12460-3 EN-717-2:2006	E1	E1	E1	E1
28	Reaction to Fire (Tested according to BS EN 13501-1:2007)*	Euroclass	BS EN 13501-1:2007	B-S1, d0	B-S1, d0	B-S1, d0	B-S1, d0

BIO-CHEMICAL PROPERTY	STANDARD	UNIT	REQUIREMENT	TEST RESULT
Antiviral Efficacy & Activity	ISO 21702-2019	% Reduction in 10 minutes % Reduction in 30 minutes	No Requirement No Requirement	90.0% (Min.) 99.0% (Min.)
Virus Tested		SARS CoV-2		
Anti bacterial Efficacy & Activity	ISO 21702-2019	% Reduction in 2 hours	No Requirement	90% (Min.)
		Activity after 24 hours	2.0 (Min .)	Exceeds
Virus Tested	JIS 2801-2012	MS2 Bacteriophage		
Anti bacterial Efficacy & Activity Bacteria tested		Rediuction in 24 hours	95.0 minimum 2.0 minimum	99.99
		1. Pseudomonas, 2.Entrococcus Faecalis, 3.Candida Albicans 4. PseudomonasAeruginosa 5.Escherichia Coli 6.Klebsiella 7.MRSA(Methicillin Resistant StapphylococcusAureus 8.Salmonella Enterica		
Antifungal Efficacy	ASTM G-21-2015	Growth after 28 days	Rating 1	Rating 0 (No Growth)
Fungus tested		1. Aspergillus niger 2. Penicillium funicolosum 3. Gliocladium virens 4. Chaetobium globosum 5. Aurobasidium pullulans		

GLAMIVA Lab grade or Chemical resistant laminates surface is best suitable for stains caused by: General Purpose Chemicals, Bio Medical reagents, Biological Spills & Wastes, Petro Chemicals Products, Food Items and edible oils, All beverages, Diary Products

Note: Although Glamiva products are manufactured as per the industry standards, the nature of the application procedure is beyond our control. The values mentioned above are to the best of our knowledge, without any liability /warranty, expressed or implied.



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