

ResistLab®

PHENOLIC WORKTOP

Advanced



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Chemical Resistance grade Phenolic Worktop. Tested based on requirements of SEFA 8.1



RESISTLAB®

A regional builder & manufacturer specializing in factory fit outs. ISO 9001 and ISO 18001 facilities. Phenolic worktops are the most commonly used tabletops in laboratories world wide. Up to 95% of all labs were phenolic tops. It has chemical resistance, high heat tolerance and is a robust material that is economical.

Here at Advancelab. we have ResistLab® that we regularly use for all segments of industries included

- ◆ MNC
- ◆ Tertiary Institutional
- ◆ Testing Laboratories
- ◆ QA / QC set ups
- ◆ Hospitals

Our work surfaces are molded with five thickness options:

- ◆ 10mm
- ◆ 13mm
- ◆ 16mm
- ◆ 18mm
- ◆ 20mm



- a) When tested at the specified drop height, the diameter of indentation shall not exceed 10 mm.
b) L = in the longitudinal (or machine) direction of the fibrous sheet material (normally the direction of the longest dimension of the laminate).
c) T = in the cross-longitudinal (cross-machine) direction of the fibrous sheet material (at right angles to direction L).
d) Machine crosshead speed : 2 mm/min.
e) Specimen type 1A : Machine crosshead speed 5 mm/min.



PSB Singapore

PHYSICAL PROPERTIES

	Test Method	Property / Attribute	Unit (min. or max.)	Values
Resistance to Surface Wear	10	Wear Resistance	Revolutions (min.) Initial point Wear value	150 350
Resistance to Impact by Large Diameter Ball	21	Drop Height ^{a)}	mm (min.) (t=nominal thickness) 2.0 ≤ t < 6.0 6.0 ≤ t	1400 1800
Resistance to Scratching	25	Force	Rating (min.) Textured finishes	3
Resistance to Dry Heat (180° C)	16	Appearance	Rating (min.) Textured finishes	4
Resistance to Wet Heat (100° C)	EN12721	Appearance	Rating (min.) Textured finishes	4
Resistance to Immersion in Boiling Water	12	Mass Increase	5 (max.) 2.0 mm ≤ t < 5.0 mm t ≥ 5.0mm	5.0 2.0
		Thickness Increase	% (max.) (t=nominal thickness) 2.0 mm ≤ t < 5.0 mm t ≥ 5.0mm	6.0 2.0
		Appearance	Rating (min.) Textured finished	4
Dimensional Stability at Elevated Temperature	17	Cumulative Dimensional Change	% (max.) (t=nominal thickness) 2.0 mm ≤ t < 5.0 mm L ^{b)} 2.0 mm ≤ t < 5.0 mm T ^{c)} t ≥ 5.0 mm L t ≥ 5.0 mm T	0.40 0.80 0.30 0.60
Resistance Staining	26	Appearance	Rating (min.) Groups 1&2 Group 3	5 4
Lightfastness (Xenon Arc)	27	Contrast	Grey scale rating	4 to 5
Resistance to Water Vapour	14	Appearance	Rating (min.) Textured finishes	4
Resistance to Cigarette Burns	30	Appearance	Rating (min.)	3
Resistance to Crazing	24	Appearance	Grade (min.)	4
Flexural Modulus	EN ISO 178 ^{d)}	Stress	Mpa (min.)	9000
Flexural Strength	EN ISO 178 ^{d)}	Stress	Mpa (min.)	80
Tensile Strength	EN ISO 527 ^{e)}	Stress	Mpa (min.)	60
Density	EN ISO 1183	Density	kg/m ³ (min.)	1350

Test Method:

The test was conducted by applying 2 or 3 drops of each reagent on the specimen surface. The reagent shall be at room temperature. Cover the reagent with a glass cover.

After a period of testing contact time under room temperature, the glass cover was removed. The reagent was rinsed off with water. Then the specimen surface was inspected and evaluated from various angles at a distance of 400 mm.

Rating:

No effect: No visible change of colour/corrosion/damage on surface

Excellent: Very slight change of colour, only visible at certain viewing angles

Good: Slightly change of colour on surface

Fair: Moderate change of colour on surface

Failure: Corrosion/ damage on surface



PSB Singapore

CHEMICAL PROPERTIES

24-hour Contact Time	%	No Effect	Excellent	Good	Fair	Failure
Acetone	-	✓				
Alcohol (Buthanol)	-	✓				
Ammonia	25	✓				
Ammonia Chloride	10	✓				
Ammonia Thiocyanate	41	✓				
Ammonia Sulphate	33	✓				
Amyl Acetate	-	✓				
Methyl Ethyl Ketone	100	✓				
Benzene	-	✓				
Dicholoromethane	99	✓				
n-Buthyl Acetate	-	✓				
Cadmium Sulphate Hytrate (Saturated)	-	✓				
Lead Acetate Trihydrate	42	✓				
Lead Nitrate (Saturated)	-	✓				
Trisodium Phosphate	10	✓				
Magnesium Chloride (Saturated)	-	✓				
Magnesium Sulphate Heptahydrate	43	✓				
Methanol	-	✓				
Potassium Bromate (Saturated)	-	✓				
Potassium Bromate	30	✓				
Potassium Chloride (Saturated)	-	✓				
Potassium Hydroxice	49		✓			
Sodium Acetate	24	✓				
Potassium Sulphate (Saturated)	-	✓				
Isopropanol	-		✓			
Sodium Acetate (Saturated)	-	✓				
Calcium Chloride Dihydrate	41	✓				
Chloral Hydrate	54	✓				
Calcium Hydroxide (Saturated)	-	✓				
Chloroform	99.5	✓				
Copper Sulphate	10	✓				
Ethanol	-	✓				
Diethyl Ether	-	✓				
Chloral Hydrate	54	✓				
Calcium Hydroxide (Saturated)	-	✓				
Chloroform	99.5	✓				
Copper Sulphate	10	✓				

24-hour Contact Time	%	No Effect	Excellent	Good	Fair	Failure
Ethanol	-	✓				
Diethyl Ether	-	✓				
Ethyl Acetate	-	✓				
Glycerine	-	✓				
Sodium Carbonate (Saturated)	-	✓				
Sodium Chloride (Saturated)	-	✓				
Sodium Nitrate (Saturated)	-	✓				
Sodium Soluble (Saturated)	-	✓				
Thymol (Saturated)	-	✓				
Toluene	99	✓				
Tetrachloromethylene	99	✓				
Xylene	-	✓				
Zinc Chloride (Saturated)	-	✓				
Zinc Sulphate Heptahydrate	33.66	✓				

30-mins Contact Time	%	No Effect	Excellent	Good	Fair	Failure
Hydrofluoric Acid	15		✓			
Sulfuric Acid	60			✓		
Nitric Acid	60		✓			
Acetic Acid	100	✓				
Boric Acid	-	✓				
Citric Acid	30	✓				
Oxalic Acid	-	✓				

15-mins Contact Time	%	No Effect	Excellent	Good	Fair	Failure
Aluminium Chloride (Saturated)	-	✓				
Hydrogen Peroxide	30	✓				
Methylene Blue (Saturated)	-	✓				
Potassium Dichromate	-	✓				
Potassium Iodide (Saturated)	-	✓				
Potassium Permanganated (Saturated)	-	✓				
Sodium Thiosulphate (Saturated)	-	✓				
Potassium Nitrate (Saturated)	-	✓				
Sodium Sulphite (Saturated)	-	✓				
Sodium Hyroxide	49	✓				
Silver Nitrate	5			✓		

FABRICATION



A US imported CNC Router gives us a wide way of ability to cut your phenolic to size. A high cut speed of 1,400 IPM and rapid traverse of 2,500 means no time is wasted when the 3000 Series cuts and moves. And you still get consistently high accuracy with each cut because the 3000 Series CNC router comes with a repeatability of 1/1000th of an inch!

We are able to fabricate and cut to size for any cutting patterns to minimise wastage.

type of job. We can produce



TOP ORDERING INFORMATION

1) Colour Guide

P01034	P01597	P60200	P11000	P60300
 Warm White	 Warm Grey	 Cold Grey	 Light Blue	 Black

2a) Standard Length

1200mm
1500mm
1800mm
3670mm

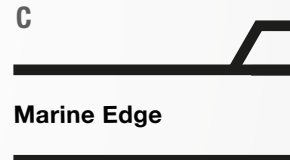
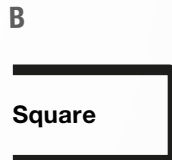
2b) Standard Width

600mm
750mm
900mm
1530mm
1850mm

2c) Standard Thickness

13mm
16mm
18mm
20mm

3) Edge and Profile



Bench Top Order No.

ADPT-P11000-1200/600-13 B



Custom code
for ResistLab®
Phenolic
worktop

Colour code refer to
table 1:

Standard length
sizes; refer to
table 2a:

Standard
width sizes;
refer to
table 2b:

Standard
Thickness;
refer to
table 2c:

Standard
finishing
(edge); refer
table 3:

* Example of the order above:

Advancelab ResistLab Phenolic Worktop - Light Blue colour - 1200mm Length / 600mm Width - 13mm thickness , Square finishing

SINKS

4a) Standard Length

1200mm
1500mm
1800mm

4b) Standard Width

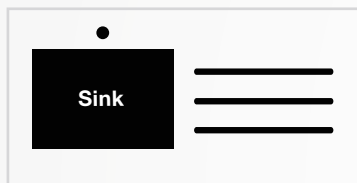
750mm

4c) Standard Thickness

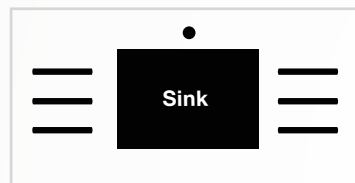
13mm
16mm
18mm
20mm

5) Position

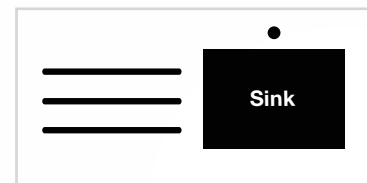
L



M



R



Forged Sink Order No.

ADPS-1500/750-18 M



Custom code for
Phenolic forged
sink



Standard length
sizes; refer to
table 4a:



Standard width
sizes; refer to
table 4b:



Standard
Thickness;
refer to
table 4c:

Standard
finishing
(edge);
refer
table 5:

* Example of the order above:

Advancelab ResistLab Phenolic Worktop - 1500mm Length / 750mm Width - 18mm thickness , Middle sink position

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