



Leonard Peterson & Company, Inc.



PHENOLIC CASEWORK

Phenolic resin cabinets and countertops are an ideal option for classrooms and laboratories where there is high humidity, frequent water spills and regular chemical experimentation.

This material is commonly used in...

- **Commercial and Educ. Labs:** chemical, biological, pharmaceutical.
- **Medical and Healthcare:** testing labs, cleanrooms, and medical support areas requiring sterile, antibacterial surfaces.
- **Ind. and Clean settings:** water treatment plants, food testing spaces, and electronics assembly areas needing non-porous, resilient storage casework.



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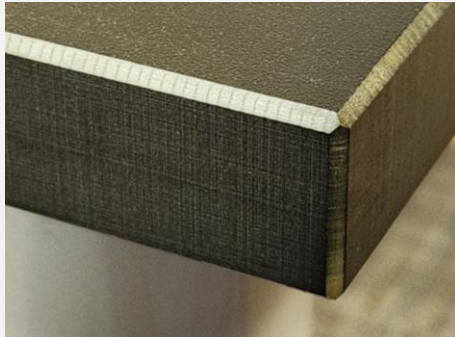
400 Webster Rd.
Auburn, AL 36832

334-821-6832
www.lpco.com



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Phenolic resin panels are created by stacking hundreds of layers of paper and saturating them with phenol resin and then applying heat and pressure. With a process similar to that of fiberglass and kevlar, the resulting product is extremely water and chemical resistant.



Phenolic resin panels are available in the same colors and patterns as high pressure plastic laminate. Tops are available in $\frac{3}{4}$ " and 1" thickness. Cabinet ends, doors and drawers are $\frac{1}{2}$ " thick. All cabinet exterior sizes match our typical wood catalog of products.

Colors below may differ from real world application.

Woodgrain
Laminate
Panels



Abstract
and Solid
Color
Laminate
Panels



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PHENOLIC COUNTERTOPS

Phenolic resin countertops are an ideal option for classrooms and laboratories where there is high humidity, frequent water spills and regular chemical experimentation. It is often used in lieu of epoxy resin due to its impact resistance, extreme cold resistance and weight. This material is commonly used in...

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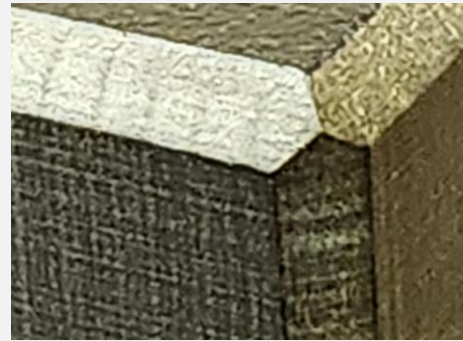
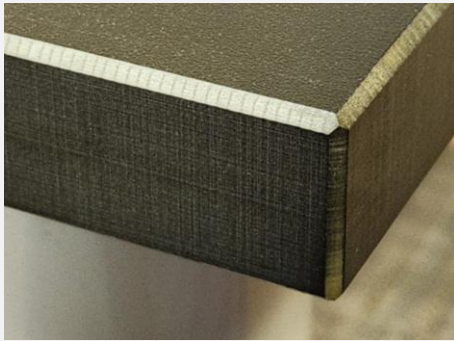
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FEATURE/ PROPERTY	PHENOLIC RESIN	EPOXY RESIN	KEY DIFFERENCES & ADVANTAGES
WEIGHT/ DENSITY	7.0 to 7.5 lbs / sq. ft. (at 1" thickness)	11.0 to 12.0 lbs / sq. ft. (at 1" thickness)	Phenolic is 35–40% lighter; easier to freight, install, and support on mobile casework
HEAT RESISTANCE	Up to 300°F – 350°F (150°C – 177°C)	Up to 450°F+ (resists direct flame/hot plates)	Epoxy wins for extreme heat and open-flame environments (e.g., Bunsen burners)
COLD RESISTANCE	Excellent; maintains structural integrity with dry ice / cryogenic exposure	Good, but can become slightly brittle under extreme freeze-thaw or cryogenic contact	Phenolic is preferred for extreme cold / dry ice without cracking.
CHEMICAL RESISTANCE	Very High; handles full pH range (0–14) and most acids/solvents	Maximum; exceptional against aggressive corrosives, concentrated acids, and solvents	Epoxy is the industry standard for harsh wet labs, though phenolic handles broader moderate pH spans
IMPACT RESISTANCE	Superior flexural/impact tolerance; resists chipping on dropped objects	High hardness, but more brittle edges; prone to chipping if heavy equipment drops	Phenolic is more forgiving against edge impacts and structural flex.
MOISTURE ABSORPTION	Virtually impermeable/non- porous	100% solid, non- porous monolithic structure	Tie; both are impervious to liquid and bacterial growth.
MODIFICATIO NS AND REPAIR	Can be easily cut/drilled on-site with standard carbide/CNC tooling	Requires diamond- tipped tooling; difficult to modify on-site	Phenolic is much easier to modify in the field.
COLOR AND FINISH OPTIONS	High range of color and finish options available	Just a few colors available.	Phenolic has a much larger selection of colors.



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