

HPL (High Pressure Laminate)

Material Attributes

- A strong engineered composite material created by fusing and compressing numerous phenolic resin-infused sheets and decorative films together using high heat and pressure to create a dense and exceptionally-resilient surface. HPL is then laid up on furniture board. HPL is similar to TFL (Thermofused Laminate), but thicker and more durable.
- Non-porous.
- Textures and appearances are consistent, ranging from highly textured to smooth matte or even glossy. Surfaces at both ends of the texture spectrum are highly tactile.
- Doors and other components are edge-banded separately using a variety of materials and thicknesses. Both HPL and vinyl banding is common.
- HPL's darker phenolic core may be visible at corners and edges in lighter finishes.



Surface | Finish Characteristics

- Available in a wide range of colors, patterns, and finishes, including wood grains, solids, and geometric patterns.
- A large variety of sheens, textures, and colors offered by individual manufacturers of HPL.
- Innovative printing technologies create realistic wood grains, rich solids, and other patterns.
- Surface textures range from ultra-smooth matte or gloss to highly embossed woodgrains and patterns.
- Woodgrains can look so authentic that they are hardly discernible from real wood. Embossed in-register laminates boast texture that precisely aligns with the printed wood image below it, providing a high level of realism.
- Some woodgrain laminates will limit or lack the natural variations or markings found in real wood. Others will mimic them realistically.
- Supermattes have velvety depth and touch.



- Consistent color from sheet to sheet makes HPL a reliable choice for a cohesive look.
- Designed to retain color integrity over time, HPL resists color change from exposure to light.
- Edge banding color, pattern, and texture will complement the HPL, but may have slight differences due to the material used.

Hardness and Durability

- Hardness cannot be measured using the Janka hardness scale.
- Their durability depends on the quality of the resin-infused surface and hardness of the substrate they adhere to. Columbia partners with suppliers of premium HPL and engineered furniture board to craft a highly scratch-, stain-, and impact-resistant product.
- Superficial micro-scratches which can develop from normal wear-and-tear can be lightly buffed out of Columbia's cutting-edge super matte HPL, using a sponge designed for this use.

Aesthetic Qualities

- A highly resilient material for contemporary slab doors, available in a myriad of colors, textures, and patterns for customizing a sleek, modern space.
- An excellent alternative to wood, stone, and painted materials, with exceptional durability, consistency, cleanability and easy maintenance. Some HPLs are self-healing or can be buffed to remove micro-scratches from normal, daily use.
- Many HPL manufacturers embrace sustainable production practices, reducing environmental impact. Refer to individual HPL specifications for more information.

