

TFL (Thermofused Laminate)

Material Attributes

- An advanced, resilient composite material created by fusing a decorative resin-infused sheet to furniture board using high heat and pressure.
- Non-porous.
- Textures and appearances are uniform, 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 edgebanded separately using a variety of materials and thicknesses. Both melamine and vinyl banding are common.
- Complementary HPL (High Pressure Laminate) often used instead of TFL in cabinetry fabrication when it is more suitable for specific components. HPL's darker phenolic core may be visible at corners and edges in lighter finishes.
- Many TFLs are created with eco-friendly methods and materials, such as Columbia's LUX Master Oak TFL offering.



Surface | Finish Characteristics

- Large variety of sheens, textures, and colors are offered by individual manufacturers of TFL.
- Advanced printing technologies create realistic woodgrains, geometric patterns, and solids.
- Surface textures range from highly tactile woodgrains and patterns to velvety super matte and smooth gloss.
- Woodgrains are designed to emulate real wood to varying degrees, with some being virtually indistinguishable from it. Sophisticated registered embossed laminates boast texture that precisely aligns with the printed wood image below it, providing a high level of authenticity.
- Some woodgrain laminates will limit or lack the natural variations or markings found in real wood. Others will mimic them realistically.
- Supermattes have a velvety appearance and touch.
- Consistent color across sheets minimizes the risk of variations that are common in solid wood.
- Designed to retain color integrity over time, resisting fading or darkening with exposure to light.
- Edgebanding color, pattern, and texture will complement the TFL, but may have slight differences due to the material used.



Hardness and Durability

- Hardness cannot be measured using the Janka hardness scale.

- TFL durability depends on the quality of the resin-infused surface and hardness of the substrate they adhere to. Columbia partners with suppliers of premium TFL and engineered furniture board to craft a scratch-, stain-, and impact-resistant product.

Aesthetic Qualities

- Highly versatile, offered in a vast array of colors, textures, and patterns to provide tailored solutions for contemporary interiors with Slab doors.
- A practical alternative to authentic wood and painted material, with opportunities for high realism, easy cleaning and maintenance, durability and consistency.
- Sustainable TFLs reduce environmental impact while providing stylish and durable options for comfortably modern interiors.

