

What is ECP

ECP

Two-layer engraving laminate on a polystyrene base

ECP is a two-layer engraving material on a polystyrene base. It follows the same working principle as other two-layer engraving materials with an ultra-thin cap layer, but is built on polystyrene rather than ABS or acrylic, making it an economical option within the range.

Construction and Working Principle

As with other two-layer engraving materials, a thin cap layer sits on a contrasting core layer. Because the cap layer is made very thin, it can be removed finely by the laser without a shadow effect. The polystyrene core sets ECP apart from ABS- or acrylic-based materials and makes it an economical alternative.

Advantages

- Fine engraving without shadow effect thanks to the ultra-thin cap layer
- Economical alternative within the engraving material range

Processing and Applications

- Suitable for laser engraving and CNC machining
- Suitable for standard labeling production
- Suitable for indoor labeling applications

Typical Properties

- Two-layer construction on a polystyrene base with an ultra-thin cap layer
- Fine engraving without shadow effect
- Economical option within the engraving material range
- Laser- and CNC-machinable

Product Examples

- Nameplates
- Name and information signs
- Advertising signs
- Control panel labeling

Typical Industries

- Labeling technology
- Nameplate manufacturing
- Sign making
- Machinery engineering

	Test Method	Unit	Value
Construction and Processing			
Material construction / Processing			Two-layer laminate on a polystyrene base, very thin cap layer; laser engraving, CNC routing

This text provides a general overview and does not replace application-specific advice; please contact us for formats, colour options and guidance on your use case.