

Safetool (precision base plate)

Product description

Safetool base plates are special composite laminates made of paper, melamine and phenolic resin.

The resin is of course fully cured. Because of the multilayer construction the product has a very good planarity. The high hardness of the material guarantees good results when pinning the material. Both sides of the material can be used equally. No surface structure visible. Material is very smooth.



Application

Safetool plates can ideally be used as base plates for CNC machines (drilling and milling machines). They can replace materials like Al-alloy and others, which might be significantly more expensive.

Process information

Mechanical processing of Safetool plates (drilling, milling, sawing) can be done easily. Drilling and milling can be done with your standard parameters for drilling and milling.

Material properties

Property	typical values
Material:	Composite laminate made of paper, melamine and phenolic resin
Color:	bright beige
Surface roughness R_a :	$< 3 \mu\text{m}$
Thickness tolerance:	$\pm 5 \%$
Planarity:	$< 0.5 \%$
T (glass transition temperature):	$> 130 \text{ }^\circ\text{C}$

Storage & handling

Temperature:	15 – 25 °C
Relative humidity:	40 – 60 %
Storage:	Flat in original package until usage. This helps to minimize moisture pickup.

Availability

Thickness:	6.35 mm; 9.50 mm; 12.70 mm
Sheets:	2800x1300 mm; 2465x1245 mm; 1400x1225 mm; 1225x1220 mm; 1220x1060 mm
Cut to size:	Size according customer specification. Tolerance about $\pm 1 \text{ mm}$.

The typical values are based on data from production and from sample measurements in the lab. This data should be considered as general information. It is the responsibility of the user to ensure that the product complies with his requirements.

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