



TECHNICAL DATA SHEET

SK2TM200-5

High temperature board for model-master

► DESCRIPTION

This epoxy board was specially developed for high-temperature manufacturing of composite tooling as master-model, in cases if the post curing of composite tool has to be done on the model.

The possibility of the CNC machining, high strength, high quality of the board surface, and low coefficient of thermal expansion of this board is ideal for using as well as a tool in small serial production at the temperature up to 200°C.

Manufacturing of the molding tool is made by CNC machine.

For processing it is preferably to use the tools specially meant for processing composite materials (fiberglass and carbon fiber reinforced plastic).

Using of PCD (polycrystalline diamond) coated tools gives good results.

The main application industries are aircraft, automotive, mechanical engineering. This product is used in various manufacturing processes of parts made of composite materials.

Advantages

- High strength
- Low density
- High temperature glass transition provides working temperature not less 200°C.
- Low coefficient of thermal expansion

► TECHNICAL DATA

Material type:	Epoxy
Color:	Light yellow



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Characteristic	Unit	Value
Glass transition temperature	Tg onset, °C	250
	Tg tan, °C	295
Compressive strength	by 20°C, MPa	105
	by 200°C, MPa	69
Flexural strength	by 20°C, MPa	65
	by 200 °C, MPa	55
Elasticity module	by 20°C, MPa	2600
	by 200°C, MPa	1700
Density	g/cm ³	0,76
Coefficient of thermal expansion	x10-6 °C-1	34,3
	by 125 °C,	34,9
	by 175 °C,	35,6
	by 200 °C,	36,4
Heat capacity	J/(g*K)	
	at 20 °C,	1,40
	at 50 °C,	1,46
	at 100 °C,	1,57
	at 150 °C,	1,66
	at 200 °C,	1,72
at 225 °C	1,75	
Thermal conduction	W/(m·K) Temperature range 20-200°C	0,5-0,45

Shelf life: unlimited

Storage conditions: it is recommended to store at temperature from -20°C until +30°C in the original packing.

► SIZE

Thickness	Width	Length
50mm	500mm	1500mm
100mm	500mm	1500mm
150mm	500mm	1500mm



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► **NOTE**

Please contact us for getting instructions for adjusting of CNC equipment for machining of board.