



# TECHNICAL DATA SHEET

## SK2TM80-5

### Polyurethane board for master models

#### ► DESCRIPTION

SK2TM80-5 – is a polyurethane board designed for making master models, tools, molds, core boxes, foundry patterns and pattern plates.

The surface is machined on all sides. SK2TM80-5 – is a synthetic, post-cured board material on polyurethane base. It has an even structure and plane parallel machined surfaces.

#### ► PROPERTIES

- low coefficient of linear expansion
- high abrasion resistance
- fine structure
- well workable

PHYSICAL PROPERTIES			
Color	Blue		
Density at 20°C	ca. 1,38 ± 0,03 g/cm <sup>3</sup>		
TECHNICAL SPECIFICATIONS			
Flexural strength	EN ISO 178	MPa	109 ± 5
Flexural elongation at break	EN ISO 178	%	3,8 ± 0,15
Flexural modulus	EN ISO 178	MPa	4175 ± 100
Impact resistance (Charpy)	EN ISO 179	kJ/m <sup>2</sup>	19,5 ± 2
Compressive strength	EN ISO 604	MPa	102 ± 5
Heat resistance (HDT)	DIN EN ISO 75 B	°C	87 ± 2
Shore hardness	DIN ISO 7619-1	Shore D	85 ± 3
Coefficient of linear expansion 20-50 °C	internal test / dilatometer	10 <sup>-6</sup> K <sup>-1</sup>	ca. 69
Wear jet test	internal tests	W(V/t) [mm <sup>3</sup> /min]	ca. 99



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#### ▶ ADVATAGES

- Dense structure
- Good edge strength
- Low tension
- Good workability
- Low dust development when milling

Milling parameters available.

#### ▶ HANDLING PRECAUTIONS

SK2TM80-5 material is a cured filled polyaddition product, no hazardous dusts when grinding. According to regulations for hazardous goods boards SK2TM80-5 don't have to be marked during transport and storage.

Small quantities can be disposed as domestic waste. For big quantities, please contact your local authorities. For further information, please consult the product safety data sheet.

#### ▶ DIMENSIONS

Unit	Length	Width	Thickness
SK2TM80-5	1000mm	500mm	30mm
	1000mm	500mm	50mm
	1000mm	500mm	75mm
	1000mm	500mm	100mm

*Dimension tolerances of 3 mm in length and width and 0,5 mm in thickness are possible.*

Please contact us for other dimensions.

#### ▶ STORAGE

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



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## ► **GUARANTEE**

The information of our technical data sheet is based on our present knowledge and the result of tests conducted under precise conditions. It is the responsibility of the user to determine the suitability of the products, under their own conditions before commencing with the proposed application. We refuse any guarantee about the compatibility of a product with any particular application. We disclaim all responsibility for damage from any incident, which results from the use of these products. The guarantee conditions are regulated by our general sale conditions.