

## PRODUCT DATA SHEET

# SikaBlock® M700 N

Polyurethane model board

## TYPICAL PRODUCT DATA

Chemical base	Polyurethane
Color	Light brown
Density	0.7 kg/l
Shore D hardness (CQP023-1 / ISO 868)	64
Flexural strength (CQP027-2 / ISO 178)	25 MPa
Flexural modulus (CQP027-2 / ISO 178)	1100 MPa
Heat deflection temperature (CQP030-1 / ISO 75B)	78 °C
Glass transition temperature (CQP053-1 / ISO 11359)	86 °C
Linear coefficient of thermal expansion (CQP053-1 / ISO 11359)	$55 \times 10^{-6} 1/K$

CQP = Corporate Quality Procedure

## DESCRIPTION

SikaBlock® M700 N is a polyurethane model board for data control models and cubings.

## PRODUCT BENEFITS

- Easy machinability
- Low dust formation when milled
- Dense fine surface
- Easy to seal and to varnish
- Very high dimensional stability
- Good compressive strength and edge stability
- Good heat distortion temperature

## AREAS OF APPLICATION

SikaBlock® M700 N is perfectly suited for data control models and cubings.

It is also recommended for master models and negatives.

The product is also designed for molds with low pressure (RIM) casting as well as for vacuum forming molds for lower number of pieces.

This product is suitable for experienced professional users only. Tests under actual processing conditions and with additional materials such as coatings and release agents must be performed to proof material compatibility.

METHOD OF APPLICATION

Product preparation

Before SikaBlock® M700 N boards can be processed (machined) they must be conditioned to 18 °C – 25 °C.  
If the boards need to be bonded, make sure that the surfaces are clean, dry and free of grease or oil.  
For bonding SikaBlock® M700 N boards together use SikaBiresin® B260. Further details on the adhesives can be found in the respective Product Data Sheet.

Application

SikaBlock® M700 N can be easily machined by milling, drilling, sawing or modified manually. It is recommended to use high performance tools to machine these boards.  
For milling parameters check information from cutting tool manufacturers or get the General Guideline “Milling parameters for SikaBlock®” for more general information.

STORAGE CONDITIONS

The board needs to be stored flat over the entire surface in dry conditions.  
Many models and tools are made of bonded boards, either with identical or other materials. Storage at low and elevated temperature can lead to high stresses due to the different expansion coefficients. To prevent this, it is necessary to store the models and tools at a temperature range between 15 °C and 30 °C.

FURTHER INFORMATION

The information herein is offered for general guidance only. Advice on specific applications is available on request from the Technical Department of Sika Industry.  
Copies of the following publications are available on request:

- Voluntary Safety Information Sheet
- General Guideline
- Milling parameters for SikaBlock®

PACKAGING INFORMATION

Dimensions [mm]	Pcs./pallet
1500 x 500 x 30	30
1500 x 500 x 50	36
1500 x 500 x 75	24
1500 x 500 x 100	18
1500 x 500 x 150	12
1500 x 500 x 200	8

BASIS OF PRODUCT DATA

All technical data stated in this document are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

HEALTH AND SAFETY INFORMATION

This product contains no substances which are intended to be released from the article under normal or reasonably foreseeable conditions of use. A Safety Data Sheet is therefore not needed to bring the product to the market, to transport or to use it. For safe use follow the instructions given in the Voluntary Safety Information Sheet.

DISCLAIMER

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