



NECURON® 450

BOARD MATERIAL - TECHNICAL DATA SHEET

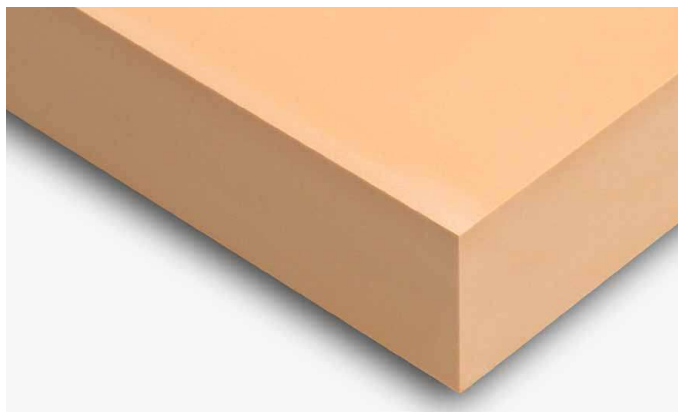
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CHARACTERISTICS

- excellent processing properties
- fine and homogeneous surface

APPLICATIONS

- master and copy models
- styling models
- wind tunnel and water channel models
- architectural models
- general modelling



TECHNICAL DATA

Colour	apricot	visual
Coefficient of thermal expansion	approx. $40 \times 10^{-6} \text{ K}^{-1}$	DIN 53752-B
Temperature resistance	approx. 50 °C	ISO 75
Shore D	approx. 50	ISO 868
Compressive strength	approx. - N/mm ²	DIN 53421
Flexural strength	approx. - N/mm ²	ISO 178
Density	approx. 0.48 g/cm ³	ISO 845
Abrasion resistance (at defined parameters)	approx. - mm ³	DIN ISO 4649
Fire protection classification	B2	DIN 4102
Electrical current resistance	approx. - $\Omega \times \text{cm}$	IEC 93
Notched impact strength	approx. - kJ/m ²	ISO 179-1
Thermal conductivity	approx. - W/mk	DIN 52612

- Contains no halogens, plasticizer or solvent
- Manufactured fluorocarbohydrate-free
- Physiologically harmless

DIMENSIONS

1,500	500	50	mm
1,500	500	75	mm
1,500	500	100	mm
1,500	500	150	mm
1,500	500	200	mm

Surfaces machined parallel.
Other dimensions on request.

STORAGE/TRANSPORT

NECURON®-boards should be stored on a flat underground and in a dry space at a temperature between 18°C and 25°C. Variations in temperature should be avoided during the transport and storage.



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PROCESSING

Adhesive	Colour	Mixture ratio A to B (by weight)	Pot life in minutes	Curing time in hours
NECURON® K2	transparent	-	90 at 20°C	5-6 at 20°C
NECURON® K4	apricot	2:1	7 - 12 at 25°C	12 - 18 at 25°C
NECURON® K8N	amber	1:0,5	10 at 20°C	5 at 20°C

or usual and compatible patternmaking adhesives/resins

We recommend that boards are plane-parallel to ensure good glue joints.

MACHINING

Machining temperature: 20°C - 25°C

Tools: Wood- or metal-working tools

Machining polyurethane boards with a laser may produce (depending on the processing temperature) visible sooty decomposition products, water vapor and carbon dioxide as well as carbon monoxide and nitrogenous compounds, including nitrogen oxides and traces of hydrogen cyanide and isocyanate vapors.

MILLING PARAMETERS

Type of tool	ROUGHING	FINISHING
	Finishing tools d=80mm	Finishing tools d=80mm
Tool diameter [d] (mm)	80	80
Cutting speed [Vc] (m/sek)	50	50
Speed [n] (1/min)	12000	8000
Feed speed (m/min)	10	7
Tooth speed [fz] (mm)	0.21	0.21
Number of teeth [z]	4	4
Cutting depth [ae] (mm)	9	0.4
Cutter mark length [fzeff] (mm)	38	10

NECURON®450

- This material does not contain any fillers that release harmful dust during machining. Nevertheless the dust content in the air should not rise above 6 mg/m³. Safety procedures recommended by the vocational co-operative of the chemical industry should be complied with.
- The article is not a regulatory product according to ICC regulations. In accordance with general local and national regulations waste is to be disposed by incineration in authorised places or conveyed to authorised tips (EAK 120105).
- Technical statements and recommendations refer to current standard of technique and are based on our own experience. Further developments and improvements are reserved. Due to the variety of processing possibilities own experiments are recommended to optimise results.
- This data sheet is not legally binding. Actual specifications and / or features may vary.