



NECUMER
SOLID SOLUTIONS

NECURON[®] 450

POLYURETHANE BOARD MATERIAL - TECHNICAL DATA SHEET

TECHNICAL DATA

Colour
Coefficient of thermal expansion
Temperature resistance
Shore D
Compressive strength
Flexural strength
Density
Abrasion resistance (at defined parameters)
Fire protection classification
Electrical current resistance
Notched impact strength
Thermal conductivity

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

DIMENSIONS

BASIC FORMAT (MM)

1,500 x 500

AVAILABLE HEIGHTS (MM)

10, 15, 20, 25, 30, 35,
40, 45, 50, 75, 100, 150,
200

Other dimensions on request.

Surfaces machined parallel.

apricot
approx. 40×10^{-6} K⁻¹
approx. 65 - 70 °C
approx. 55
approx. 13 N/mm²
approx. 16 N/mm²
approx. 0.48 g/cm³
approx. - mm³
B2
approx. - Ω x cm
approx. - kJ/m²
approx. - W/mk

visual
DIN 53752-B
ISO 75
ISO 868
DIN 53421
ISO 178
ISO 845
DIN ISO 4649
DIN 4102
IEC 93
ISO 179-1
DIN 52612

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

PROCESSING

ADHESIVE	COLOUR	MIXTURE RATIO A TO B (BY WEIGHT)	POT LIFE IN MINUTES AT 20°C	CURING TIME AT 20°C
NECURON® K0	CREAM	1:1	2-3	25-30 MIN
NECURON® K8N	AMBER	1:0,5	10	5 HRS

■ 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

PARAMETERS	ROUGHING	FINISHING
Type of tool	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

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 transport and storage.

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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.

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