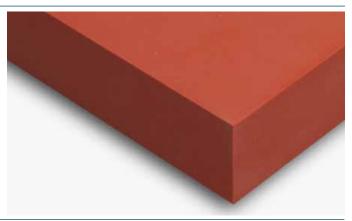


CHARACTERISTICS

very high flexural strength, compressive strength and abrasion resistance

APPLICATIONS

- sheet metal forming tools / draw dies (up to 1.5 mm sheet metal thickness drawing depths of approx. 60 mm per stroke are possible)
- hammer form and flanging tools
- foundry assemblies (for hand and machine forming processes)
- · master and copy models, design models



TECHNICAL DATA

Colour	red	visual
Coefficient of thermal expansion	approx. 65 x 10 ⁻⁶ K ⁻ 1	DIN 53752-B
Temperature resistance	approx. 70 °C	ISO 75
Shore D	approx. 80	ISO 868
Compressive strength	approx. 87 N/mm ²	DIN 53421
Flexural strength	approx. 92 N/mm²	ISO 178
Density	approx. 1.10 g/cm³	ISO 845
Abrasion resistance (at defined parameters)	approx. 240 mm³	DIN ISO 4649
Fire protection classification	-	DIN 4102
Electrical current resistance	approx Ω x cm	IEC 93
Notched impact strength	approx. 27.5 kJ/m ²	ISO 179-1
Thermal conductivity	approx. 0.1839 W/mk	DIN 52612
Modulus of elasticity	approx. 2,275 MPa	ISO 178

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

DIMENSIONS

1,000	500	50	mm
1,000	500	75	mm
1,000	500	100	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.

EN 2/2

PROCESSING

Adhesive	Colour	Mixture ratio A to B (by weight)	Pot life in minutes at 20°C	Curing time at 20°C in hours
NECURON® K8N	amber	1:0,5	10	5
NECURON® K13	red	1:1	2-3	0,5

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: Metal-cutting tools, large receptacle for removing shavings is required

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

ROUGHING	FINISHING
Finishing tools d=80mm	Finishing tools d=80mm
80	80
50	50
12000	8000
7.5	5
0.16	0.16
4	4
3	0.5
38	5-10
	Finishing tools d=80mm 80 50 12000 7.5 0.16 4 3

NECURON® 1300

- 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.