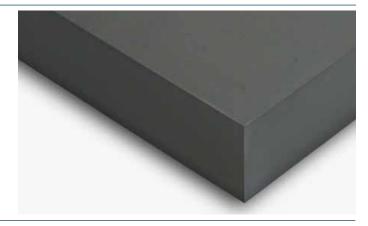
CHARACTERISTICS

· excellent physical properties

APPLICATIONS

- fixtures and gauges
- master and copy models
- models with high mechanical stress



TECHNICAL DATA

| Colour | grey | visual |
|---|---|--------------|
| Coefficient of thermal expansion | approx. 50 x 10 ⁻⁶ K ⁻¹ | DIN 53752-B |
| Temperature resistance | approx. 75 °C | ISO 75 |
| Shore D | approx. 83 | ISO 868 |
| Compressive strength | approx. 75 N/mm ² | DIN 53421 |
| Flexural strength | approx. 75 N/mm² | ISO 178 |
| Density | approx. 1.20 g/cm³ | ISO 845 |
| Abrasion resistance (at defined parameters) | approx. 340 mm³ | DIN ISO 4649 |
| Fire protection classification | B2 | DIN 4102 |
| Electrical current resistance | approx Ω x cm | IEC 93 |
| Notched impact strength | approx. 9.90 kJ/m² | ISO 179-1 |
| Thermal conductivity | approx W/mk | DIN 52612 |
| Modulus of elasticity | approx. 2,605 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 at 20°C in minutes | Curing time at 20°C |
|--------------|----------------|-------------------------------------|-----------------------------|------------------------|
| NECURON® K0 | cream-coloured | 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: 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 |
|---------------------------------|------------------------|------------------------|
| 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) | 7 | 5 |
| Tooth speed [fz] (mm) | 0.15 | 0.15 |
| Number of teeth [z] | 4 | 4 |
| Cutting depth [ae] (mm) | 3 | 0.5 |
| Cutter mark length [fzeff] (mm) | 38 | 5 |
| | | |

NECURON® 1001

- 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.