



## Test Fixtures

### METO<sup>®</sup> TOOL AG-20, AG-30, AG-40 and AG-50

#### Product Description

METOTOOL AG are test fixtures made of cast acrylic glass with tightest thickness tolerance and excellent mechanical properties.

METOTOOL AG consists mainly of the polymer PMMA, which is built up in its purest form only from the chemical basic elements carbon, hydrogen and oxygen. The raw materials as exit products for METOTOOL AG are economically friendly, produced in Germany

With METOTOOL AG there are test fixtures available providing best performance at most reasonable prices.

#### Technical Advantages

- Cast high density and flat acrylic sheets
- Both sides plain and smooth surface
- No blubbles, scratches etc from extrusion
- Clear, high translucency > 90%
- Very high ultimate strength and splinter strength
- Excellent chipping properties
- Protection foil both sides
- METOTOOL AG is cut to any size in any quantity

#### Technical Data (acc. DIN/ISO)

Tensile strength:	mind. 68 Mpa
Ball pressure hardness H 961/30:	ca. 190 MPA
Blow toughness:	ca 12 kJ/m <sup>2</sup>
Density:	1,19 g/cm <sup>3</sup>
Elongation:	about. 0,7 mm/1m edge length/10 °C

#### Processing Notes

- Remove protection foil after cutting and drilling
- Always use sharp tools
- Use cold water, soluble oils, Parafine or pressure air as cooling agent, common cutting liquids might damage the PMMA
- For cutting only use straight HSS saw blades or carbide tipped saw blades with a tooth number as high as possible. Cutting speed min. 3.000 m/min
- At drill bits the point angle should be between 60° and 90°, the shaving angle between 3° and 90°, the clearance angle min. 3°. Surface speed should be between 10 and 60 m/min.
- For routing use rough toothed tools or 2-edge routers at cutting speeds from 1.000 to 2.000 m/min and acceleration up to 0,5 mm/rotation

#### Environment and Disposal

With production of METOTOOL AG series ecologically compatible methods and materials are used. The test fixtures can be recycled.

#### Quality Control

METOTOOL AG test fixtures undergo a permanent quality control to assure constant and highest quality.

#### Sizes and Thicknesses

METOTOOL is manufactured in master sheets of 1.220 x 2.000 mm; Panels cut to size upon customers request in any quantity available within 1-2 working days.

<u>Product</u>	<u>Thickness</u>
METOTOOL AG 20	2,0 mm ± 10 %
METOTOOL AG 30	3,0 mm ± 10 %
METOTOOL AG 40	4,0 mm ± 10 %
METOTOOL AG 50	5,0 mm ± 10 %

Other sheet sizes and thicknesses available upon request.