

HARDENED STEEL CUTTING DIE

Hardened Steel Cutting Die for GOST 19109 Type A

Notched Izod bar · Izod impact specimen — built to GOST 19109: Plastics - Determination of Izod impact strength



OVERVIEW

Solid cutting die for cutting Notched Izod bar specimens to GOST 19109. The die is machined from a single piece of steel, hardened and finished with a sharp, precision cutting edge, so it holds its profile when cutting harder plastics from 0 to 5 mm thick.

KEY FEATURES

- Machined from a single piece of steel — no joints or seams in the cutting edge
- Hardened, precision-finished edge for clean, square specimen sides
- Cuts harder plastics, filled compounds and sheet from 0–5 mm thick
- Integral ejector plate releases the specimen after cutting
- Long service life; cutting edge can be re-sharpened

SPECIMEN PROFILE

Length	80 ± 2 mm
Width	10.0 ± 0.2 mm
Thickness	4.0 ± 0.2 mm
Notch depth	2.0 mm (remaining 8.0 ± 0.2 mm)
Notch angle / tip radius	45° ± 1° / 0.25 ± 0.05 mm

Nominal values per GOST 19109; die is cut to the standard's profile.

DIE SPECIFICATIONS

Die construction	One-piece machined steel body
Cutting edge	Hardened, precision-finished
Material thickness	0 – 5 mm
Recommended materials	Rigid & semi-rigid plastics, filled compounds, rubber, sheet & film
Specimen ejection	Integral ejector plate
Press compatibility	Manual, pneumatic & hydraulic sample-cutting presses
Cut profile	Notched Izod bar per GOST 19109

APPLICATIONS

- Impact-modified polymers
- Engineering plastics
- Low-temperature toughness checks
- Resin certification

ABOUT THE STANDARD

Rectangular bar with a single V-notch, struck by a pendulum in a cantilever (Izod) setup. Notch Type A gives the standard notched Izod impact strength.

Ordering & customization: Specify the standard and specimen type, die style (ribbon steel or hardened steel), the material and thickness you cut, and your press make/model so we can match the mounting. Custom profiles, multi-cavity dies and nick/notch features are available on request.

Also available: Ribbon Steel version

Economical steel-rule die for rubber, elastomers and soft plastics up to 3 mm thick — same GOST 19109 Type A profile.

Specifications are typical and may vary by configuration; confirm at time of quote. Refer to the current edition of the standard for specimen tolerances and test procedures.
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