

HARDENED STEEL CUTTING DIE

Hardened Steel Cutting Die for ISO 8256

Tensile Impact Specimen Type 3 · Tensile impact specimen — built to ISO 8256: Plastics — Determination of tensile-impact strength


OVERVIEW

Solid cutting die for cutting Tensile Impact Type 3 specimens to ISO 8256. 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

Overall length	80 ± 2 mm
Width of ends	15.0 ± 0.5 mm
Length of narrow section	10.0 ± 0.2 mm
Width of narrow section	10.0 ± 0.5 mm
Transition radius	20 ± 1 mm
Thickness	4 mm

Nominal values per ISO 8256; die is cut to the standard's profile.

APPLICATIONS

- Thin sheet & film
- Flexible thermoplastics
- Automotive trim
- Pipe & profile materials

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	Tensile Impact Specimen Type 3 per ISO 8256

ABOUT THE STANDARD

ISO 8256 measures the energy to break plastics under high-speed tensile impact, using a pendulum, for materials too flexible or thin for Charpy or Izod. The Type 3 short dumbbell is used for rigid and semi-rigid plastics and sheet.

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 ISO 8256 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. Part ref. UGC-CDH-ISO8256-T3