

HARDENED STEEL CUTTING DIE

Hardened Steel Cutting Die for DIN 53363

Trapezoid tear specimen with incision · Tear specimen — built to DIN 53363: Testing of plastic films - Tear test using trapezoidal test specimen with incision



OVERVIEW

Solid cutting die for cutting Trapezoid tear with incision specimens to DIN 53363. 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

Specimen width	50 mm
Specimen length	120 mm
Form	Trapezoid, clamped along non-parallel edges
Incision	Short slit at centre of short edge
Thickness	Film / sheeting as supplied

Nominal values per DIN 53363; 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	Trapezoid tear specimen with incision per DIN 53363

APPLICATIONS

- Packaging films
- Agricultural and construction sheeting
- Coated fabrics and foils
- Film QC and comparison

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.

ABOUT THE STANDARD

DIN 53363 measures the tear propagation resistance of plastic films using a trapezoid-shaped piece with a starter incision. The non-parallel edges are clamped so the tear runs across the specimen from the cut, giving a tear force value for film and sheeting.

Also available: Ribbon Steel version

Economical steel-rule die for rubber, elastomers and soft plastics up to 3 mm thick — same DIN 53363 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-DIN53363