

RIBBON STEEL CUTTING DIE

Ribbon 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



Representative ribbon steel die

OVERVIEW

Steel-rule style cutting die for cutting Trapezoid tear with incision specimens to DIN 53363. A precision-bent, hardened ribbon-steel rule is set into a laser-cut plywood base with a foam ejection pad, giving clean, repeatable cuts in rubber, elastomers and soft plastics from 0 to 3 mm thick.

KEY FEATURES

- Hardened ribbon-steel rule precision-bent to the DIN 53363 profile
- Laser-cut multi-ply plywood base holds the rule rigidly in position
- Foam ejection pad pushes the specimen free after every stroke
- Ideal for rubber, elastomers, TPE, foam and soft plastics 0–3 mm thick
- Economical, fast-turnaround option for routine QC and lab testing

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	Ribbon-steel rule (steel-rule die) in plywood base
Cutting edge	Hardened steel rule, precision bent
Material thickness	0 – 3 mm
Recommended materials	Rubber, elastomers, TPE, foams, soft plastics & films
Specimen ejection	Closed-cell foam ejection pad
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

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.

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: Hardened Steel version

Machined from one piece of hardened steel for harder plastics up to 5 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-CDR-DIN53363