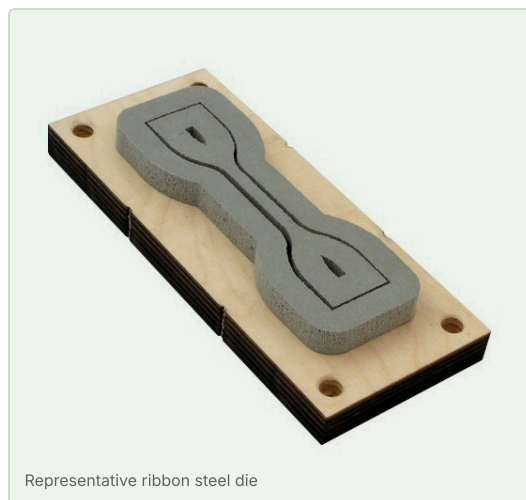


RIBBON STEEL CUTTING DIE

Ribbon Steel Cutting Die for ISO 527-2 Type 5A

Small Dumbbell Type 5A · Tensile specimen — built to ISO 527-2: Plastics — Determination of tensile properties — Part 2: Test conditions for moulding and extrusion plastics



OVERVIEW

Steel-rule style cutting die for cutting Small Dumbbell Type 5A specimens to ISO 527-2. 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 ISO 527-2 Type 5A 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

Overall length (min)	75 mm
Width of ends	12.5 ± 1 mm
Length of narrow section	25 ± 1 mm
Width of narrow section	4.0 ± 0.1 mm
Transition radius (small)	8.0 ± 0.5 mm
Gauge length	20.0 ± 0.5 mm
Thickness (min)	2 mm

Nominal values per ISO 527-2; die is cut to the standard's profile.

APPLICATIONS

- Injection-moulded parts
- Extruded sheet & profiles
- Resin qualification
- Filled & reinforced compounds

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	Small Dumbbell Type 5A per ISO 527-2

ABOUT THE STANDARD

ISO 527-2 defines tensile test specimens and conditions for moulding and extrusion plastics, building on the general principles of ISO 527-1. Type 5A is used for plastics with high elongation (elastomer-like behavior) where a small specimen is needed.

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 ISO 527-2 Type 5A 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-ISO5272-T5A