RIBBON STEEL CUTTING DIE

Ribbon Steel Cutting Die for JIS K7162 1A

Tensile Dumbbell Type 1A · Tensile specimen — built to JIS K7162: Testing method for tensile properties of plastics (moulding and extrusion plastics)

Representative ribbon steel die

OVERVIEW

Steel-rule style cutting die for cutting Tensile Dumbbell Type 1A specimens to JIS K7162. 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 JIS K7162 1A 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)	150 mm
Width of ends	20.0 ± 0.2 mm
Width of narrow section	10.0 ± 0.2 mm
Length of narrow section	80 ± 2 mm
Transition radius	20 – 25 mm
Gauge length	50.0 ± 0.5 mm
Recommended thickness	4.0 ± 0.2 mm

Nominal values per JIS K7162; 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	Tensile Dumbbell Type 1A per JIS K7162

APPLICATIONS

- Molded plastic resin QC
- Material datasheet property generation
- Incoming resin lot acceptance
- Polymer R&D and compound comparison

ABOUT THE STANDARD

JIS K7162 was the earlier Japanese adoption of ISO 527-2 for molding and extrusion plastics. Type 1A is the directly molded multipurpose-type tensile bar.

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 JIS K7162 1A 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-JISK7162-T1A