

HARDENED STEEL CUTTING DIE

Hardened Steel Cutting Die for JIS K7137-2-B

PTFE Dumbbell (Type B) · Tensile specimen — built to JIS K7137-2: Plastics — PTFE semi-finished products — Part 2: Preparation of test specimens and determination of properties


OVERVIEW

Solid cutting die for cutting PTFE Dumbbell (Type B) specimens to JIS K7137-2. 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 (min)	115 mm
Width of ends	25 ± 1 mm
Width of narrow section	6.0 ± 0.4 mm
Length of narrow section	33 ± 2 mm
Transition radius (inner / outer)	14 mm / 25 mm
Gauge length	25 mm

Nominal values per JIS K7137-2; 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	PTFE Dumbbell (Type B) per JIS K7137-2

APPLICATIONS

- PTFE molding powder QC
- Sintered sheet and skived tape
- Fluoropolymer seals and liners
- Resin lot acceptance testing

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

JIS K7137-2 covers specimen preparation and property testing for PTFE semi-finished products such as sheet, rod and tube. The Type B dumbbell is the larger alternative specimen for PTFE sheet.

Also available: Ribbon Steel version

Economical steel-rule die for rubber, elastomers and soft plastics up to 3 mm thick — same JIS K7137-2-B 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-JISK71372-TB