

HARDENED STEEL CUTTING DIE

Hardened Steel Cutting Die for EN 12311-2 Type B

Dumbbell for roofing membranes · Tensile specimen — built to EN 12311-2: Flexible sheets for waterproofing - Tensile properties - Plastic and rubber sheets for roof waterproofing



OVERVIEW

Solid cutting die for cutting Dumbbell for roofing membranes specimens to EN 12311-2. 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 mm
Width of narrow section	6.0 ± 0.4 mm
Length of narrow section	33 mm
Gauge length	25 mm
Thickness	Sheet as supplied

Nominal values per EN 12311-2; 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	Dumbbell for roofing membranes per EN 12311-2

APPLICATIONS

- PVC-P roofing membranes
- TPO / FPO sheets
- EPDM roofing
- CE marking per EN 13956

ABOUT THE STANDARD

EN 12311-2 determines tensile strength and elongation of plastic and rubber sheets for roof waterproofing. Method B applies to homogeneous (unreinforced) sheets and uses a dumbbell, while Method A uses 50 mm wide strips for reinforced sheets.

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: Ribbon Steel version

Economical steel-rule die for rubber, elastomers and soft plastics up to 3 mm thick — same EN 12311-2 Type 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-EN123112-MethodB