

HARDENED STEEL CUTTING DIE

Hardened Steel Cutting Die for EN 60811-1-1 Fig. 12

Large cable dumbbell · Tensile specimen — built to EN 60811-1-1: Insulating and sheathing materials of electric cables - Common test methods - Measurement of thickness and overall dimensions; mechanical properties



OVERVIEW

Solid cutting die for cutting Large cable dumbbell specimens to EN 60811-1-1. 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)	75 mm
Width of ends	12.5 ± 1 mm
Width of narrow section	4.0 ± 0.1 mm
Length of narrow section	25 ± 1 mm
Gauge length	20 mm
Max. thickness	2.0 mm

Nominal values per EN 60811-1-1; 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	Large cable dumbbell per EN 60811-1-1

APPLICATIONS

- PVC and PE cable sheaths
- XLPE / EPR insulation
- Ageing (before/after) tensile comparison
- Cable QC and type testing

ABOUT THE STANDARD

Cut from insulation or sheath of the cable after any ridges are removed, this dumbbell is used for tensile strength and elongation at break before and after ageing. The large dumbbell (4 mm x 25 mm, ISO 37 Type 2 style) is preferred when the sample is wide enough.

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 60811-1-1 Fig. 12 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-EN6081111-F12