RIBBON STEEL CUTTING DIE

Ribbon 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

Representative ribbon steel die

OVERVIEW

Steel-rule style cutting die for cutting Large cable dumbbell specimens to EN 60811-1-1. 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 EN 60811-1-1 Fig. 12 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
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	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	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: Hardened Steel version
Machined from one piece of hardened steel for harder plastics up to 5 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-CDR-EN6081111-F12