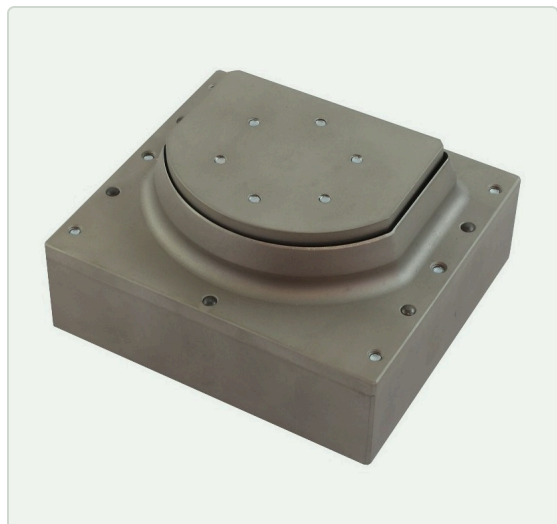


HARDENED STEEL CUTTING DIE

Hardened Steel Cutting Die for ASTM D1922

Elmendorf Tear Specimen · Tear propagation (Elmendorf) specimen — built to ASTM D1922: Standard Test Method for Propagation Tear Resistance of Plastic Film and Thin Sheeting by Pendulum Method


OVERVIEW

Solid cutting die for cutting Elmendorf Tear specimens to ASTM D1922. 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

Specimen width (along tear)	76 mm
Specimen height	63 mm
Pre-cut slit	20 mm
Tear length	43 ± 0.15 mm
Constant-radius arc (optional)	43 mm radius

Nominal values per ASTM D1922; 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	Elmendorf Tear Specimen per ASTM D1922

APPLICATIONS

- Packaging film
- Bags & liners
- Paper/film laminates
- Nonwoven & coated sheet

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

ASTM D1922 measures the force needed to propagate an existing slit through plastic film or thin sheeting using a falling-pendulum Elmendorf tester. Specimens are rectangular or constant-radius shaped with a pre-cut slit, leaving a fixed tear distance.

Also available: Ribbon Steel version

Economical steel-rule die for rubber, elastomers and soft plastics up to 3 mm thick — same ASTM D1922 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-D1922