

Foam Tear Test Specimen Cutting Die

Built to ISO 8067 — Flexible cellular polymeric materials — Determination of tear strength



OVERVIEW

Deep cutting die for preparing tear test pieces from flexible foam to ISO 8067 geometry. The hardened cutting edge, set in a tall die body to clear thick foam sections, cuts the full profile in one press stroke, and the bolted ejector plate pushes the cut test piece out cleanly.

KEY FEATURES

- Tall die body clears thick foam sections in a single stroke
- Hardened, ground cutting edge produces clean, square cut faces
- Bolted ejector plate releases the cut test piece without distortion
- Profile machined to ISO 8067 test piece geometry
- Heavy base block sits square under a press platen

TECHNICAL SPECIFICATIONS

Cutter type	Hollow cutting die with ejector plate
Specimen geometry	Tear test piece per ISO 8067
Cutting edge	Hardened tool steel, ground and honed
Material thickness range	Flexible foam, typically up to 25 mm
Construction	Solid die body with bolted ejector plate
Press compatibility	Manual, pneumatic or hydraulic specimen presses
Use	Specimen preparation before tear testing
Customization	Other foam test piece profiles on request

APPLICATIONS

- Flexible polyurethane foams
- Latex and rubber foams
- Seating and bedding foam QC
- Foam formulation development

ABOUT THE STANDARD

ISO 8067 specifies methods for determining the tear strength of flexible cellular polymeric materials such as polyurethane and latex foams. A shaped, pre-cut test piece is torn at a constant rate on a tensile machine, and the tear strength is calculated from the tearing force divided by the test piece thickness, reported in N/m.

Ordering & customization: Specify test piece type and dimensions, foam density and thickness, and the press the die will be used in when ordering.

Specifications are typical and may vary by configuration; confirm at time of quote. Users should refer to the current edition of the standard for test procedures. Part ref. UGC-ISO8067-SC