PRODUCT DATA SHEET

ASTM D624 Specimen Cutter

Tear Test Specimen Die for Rubber

Built to ASTM D624 — Standard Test Method for Tear Strength of Conventional Vulcanized Rubber and Thermoplastic Elastomers



OVERVIEW

Cutting die for preparing tear test specimens from rubber and thermoplastic elastomer sheet. Hardened, precision-ground blades reproduce the specified die profile, including any nick or angle features, so tear initiation and propagation reflect the material rather than edge defects from cutting.

KEY FEATURES

- Die profile matched to the selected ASTM D624 specimen type (A, B, C, T, CP)
- Hardened tool steel blade with precision-ground edge
- Clean, burr-free cuts for valid tear results
- Fits standard arbor, clicker or pneumatic presses
- Resharpening service available

TECHNICAL SPECIFICATIONS

Use	Cutting tear specimens for rubber and TPE testing
Specimen type	Die A, B, C, T or CP, per ASTM D624 geometry
Materials	Vulcanized rubber and thermoplastic elastomer sheet
Blade material	Hardened tool steel
Cutting edge	Precision-ground, bevel to suit sheet thickness
Press compatibility	Manual arbor, pneumatic or hydraulic cutting presses
Mounting	Standard die shank or flat back; custom to suit press
Service	Resharpening available

APPLICATIONS

- Rubber compounds and vulcanizates
- Thermoplastic elastomers
- Seals, hoses and molded rubber goods
- Rubber laboratory sample prep

ABOUT THE STANDARD

ASTM D624 measures the tear strength of conventional vulcanized rubber and thermoplastic elastomers. Several specimen geometries are defined, including crescent, angle and trouser shapes, each cut with a specific die. Specimens are pulled on a tensile machine and the force required to initiate or propagate a tear is reported per unit thickness.

Ordering & customization: Specify die type, sheet thickness, press type and mounting style 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-D624-SC