

DUMBBELL SPECIMEN DIE FOR PLASTIC SPECIMENS TYPE I, II, III, IV, V

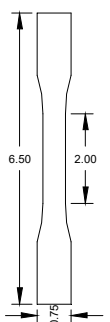


3,000 lb. Lever Action Die Press

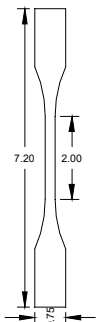


Model No. ACC.D0638.1099 - Manually Operated Toggle Press

3,000 lb Capacity Die Press Fixture. Bench top press fixture for stamping out specimens using ASTM dies. This Manually Operated Toggle Press is ideal for singulation of small PCB's and all types of small die cutting. The press can handle dies with approximately five inches of trim. (Must order Shank for Toggle Press for die.)



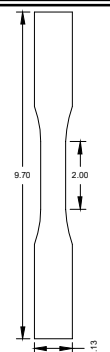
D0638.0001
Die I



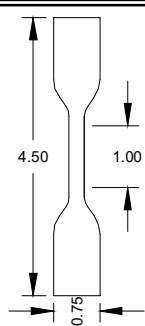
D0638.0002
Die II

Model No. DIE.D0638.0001 - Type I Specimen Cutting Die
2.00" gauge length, 0.50" gauge width, 0.75" Dumbbell grip width, 6.50" Total Length

Model No. DIE.D0638.0002 - Type II Specimen Cutting Die -
2.00" gauge length, 0.25" gauge width, 0.75" Dumbbell grip width, 7.20" Total Length



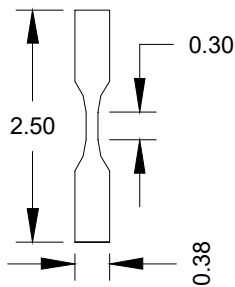
D0638.0003
Die III



D0638.0004
Die IV

Model No. DIE.D0638.0003 - Type III Specimen Cutting Die -
2.00" gauge length, 0.75" gauge width, 1.13" Dumbbell grip width, 9.70" Total Length

Model No. DIE.D0638.0004 - Type IV - Specimen Cutting Die -
1.00" gauge length, 0.25 gauge width, 0.75" Dumbbell grip width, 4.50" Total Length



D0638.0005
Die V

Model No. DIE.D0638.0005 - Type V - Specimen Cutting Die -
0.30" gauge length, 0.125" gauge width, 0.375" Dumbbell grip width, 2.50" Total Length

MODEL NO. ACC.D0638.1000

Model No. ACC.D0638.1099 - Manually Operated Toggle Press
3,000 lb Capacity Die Press Fixture. Bench top press fixture for stamping out specimens using ASTM dies. This Manually Operated Toggle Press is ideal for singulation of small PCB's and all types of small die cutting. The press can handle dies with approximately five inches of trim. (Must order Shank for Toggle Press for die.)

Model No. DIE.D0638.0001 - Type I Specimen Cutting Die
2.00" gauge length, 0.50" gauge width, 0.75" Dumbbell grip width, 6.50" Total Length

Model No. DIE.D0638.0002 - Type II Specimen Cutting Die -
2.00" gauge length, 0.25" gauge width, 0.75" Dumbbell grip width, 7.20" Total Length

Model No. DIE.D0638.0003 - Type III Specimen Cutting Die -
2.00" gauge length, 0.75" gauge width, 1.13" Dumbbell grip width, 9.70" Total Length

Model No. DIE.D0638.0004 - Type IV - Specimen Cutting Die -
1.00" gauge length, 0.25 gauge width, 0.75" Dumbbell grip width, 4.50" Total Length

Model No. DIE.D0638.0005 - Type V - Specimen Cutting Die -
0.30" gauge length, 0.125" gauge width, 0.375" Dumbbell grip width, 2.50" Total Length

REFERENCE DOCUMENT AND TEST METHOD SCOPE:

Scope <http://www.astm.org/Standards/D638.htm>
ASTM D638-14

Standard Test Method for Tensile Properties of Plastics

1.1 This test method covers the determination of the tensile properties of unreinforced and reinforced plastics in the form of standard dumbbell-shaped test specimens when tested under defined conditions of pretreatment, temperature, humidity, and testing machine speed.

1.2 This test method is applicable for testing materials of any thickness up to 14 mm (0.55 in.). However, for testing specimens in the form of thin sheeting, including film less than 1.0 mm (0.04 in.) in thickness, ASTM standard D882 is the preferred test method. Materials with a thickness greater than 14 mm (0.55 in.) shall be reduced by machining.

1.3 This test method includes the option of determining Poisson's ratio at room temperature.

NOTE 1 This standard and ISO 527-1 address the same subject matter, but differ in technical content.

NOTE 2 This test method is not intended to cover precise physical procedures. It is recognized that the constant rate of crosshead movement type of test leaves much to be desired from a theoretical standpoint, that wide differences may exist between rate of crosshead movement and rate of strain between gauge marks on the specimen, and that the testing speeds specified disguise important effects characteristic of materials in the plastic state. Further, it is realized that variations in the thicknesses of test specimens, which are permitted by these procedures, produce variations in the surface-volume ratios of such specimens, and that these variations may influence the test results. Hence, where directly comparable results are desired, all samples should be of equal thickness. Special additional tests should be used where more precise physical data are needed.

NOTE 3 This test method may be used for testing phenolic molded resin or laminated materials. However, where these materials are used as electrical insulation, such materials should be tested in accordance with Test Methods D229 and Test Method D651.

NOTE 4 For tensile properties of resin-matrix composites reinforced with oriented continuous or discontinuous high modulus >20-GPa (>3.0?×106-psi) fibers, tests shall be made in accordance with Test Method D3039/D3039M.

1.4 Test data obtained by this test method have been found to be useful in engineering design. However, it is important to consider the precautions and limitations of this method found in Note 2 and Section 4 before considering these data for engineering design.

1.5 The values stated in SI units are to be regarded as standard. The values given in parentheses are for information only.

1.6 This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.

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