

Tentative Specifications for

ENCLOSURES FOR SMALL TESTING MACHINES FOR TESTS AT SUBNORMAL AND SUPERNORMAL TEMPERATURES OF ELECTRICAL INSULATING MATERIALS AND PLASTICS¹



A.S.T.M. Designation: D 760 - 44 T

ISSUED, 1944.²

These Tentative Specifications have been approved by the sponsoring committee and accepted by the Society in accordance with established procedures, for use pending adoption as standard. Suggestions for revisions should be addressed to the Society at 1916 Race St., Philadelphia 3, Pa.

Scope

1. These specifications cover chambers suitable for total enclosure of small testing machines, such as are required in A.S.T.M. methods of testing electrical insulating materials and plastics. They are designed for use when tests are to be made below or above normal temperatures, specifically within the range from -70 to $+170$ F.

NOTE 1.—Enclosures of the type covered by these specifications are suitable for use in connection with the Tentative Methods of Test for Impact Resistance of Plastics and Electrical Insulating Materials (A.S.T.M. Designation: D 256),³ Tentative Methods of Testing Molded Materials Used for Electrical Insulation (A.S.T.M. Designation: D 48),³ Tentative Methods of Test for Deformation of Plastics Under Load (A.S.T.M. Designation: D 621),³ and Tentative Method of Test for Impact Resistance of Plastics at Subnormal and Supernormal Temperatures (A.S.T.M. Designation: D 758).³

NOTE 2.—These enclosures for small testing machines are not preferred to a room of the walk-in type, but have been found satisfactory for high-temperature and low-temperature tests of electrical insulating materials and plastics

where the expense, mechanical problems, and other known disadvantages of a complete room are not justified.

Requirements

2. The enclosures shall be of double-walled or equivalent construction with a dead air space or suitable insulation between the walls. They shall be in the form of a box having inside dimensions 14 in. in width by 48 in. in length by 38 in. in height. They either shall be open on the bottom for convenient placing over bench-mounted testing machines or have one side removable to admit the testing machine. Each enclosure shall be provided with a double-walled sliding door 10 by 12 in. fitted with a window through which the scale of the testing machine may be read. A suitable hole for connecting ducts shall be located at the center of one end of the box, 14 in. from the bottom.

Materials of Construction

3. The enclosures may be constructed of transparent or opaque plastic, plywood, pressed wood or pressed pulp, or pressed asbestos board. If constructed of a material which is moisture-sensitive, they should be coated with a suitable moistureproof paint, varnish, or lacquer.

¹Under the standardization procedure of the Society, these specifications are under the joint jurisdiction of A.S.T.M. Committee D-9 on Electrical Insulating Materials and Committee D-20 on Plastics.

²Accepted by Committee E-10 on Standards, February 8, 1944.

³Appears in this publication, see Contents in Numeric Sequence of A.S.T.M. Designations at front of book.