

## (6) POSITION TENSILE CREEP STAND, LOW CAPACITY, HIGH ELONGATION, ROOM



Model No. ASTM.D2990.13

6 Position Tensile Creep of Polymer and Rubber Materials.

Tensile creep dead loaded stand for elevated temperature testing. Each test station is capable of dead loads between 0.5 to 5.0 lbf. Includes: (12) 1 lb weights and (6) 1/2 lb weights. Also supplied with 10 lbs of steel shot. Each test station is supplied with a matching set of eccentric roller grips for high elongation polymer specimens. Each test station is supplied with a 6 inch linear scale back-dropped behind the specimen for visual displacement measurements.

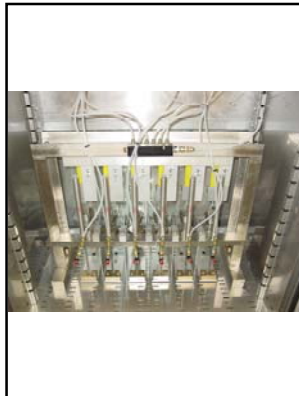
Specimen widths: up to 1.0"

Capacity: 5 lbs tensile load per Station

Platform: Table or floor mount (Table not included)

Overall Size: 11" deep by 36" wide by 20" tall

Temperature Range: -40°F to 200°F (-40°C to 90°C)



Options:

Automatic Lowering System (Pneumatic)



Model No. CHAM.BO150.13 - Modified Oven

Chamber oven modified to fit Creep Stand listed above. Used for temperatures up to 150°C.



Options: Extra Slotted Weights

SSW.0100 - Extra can of steel shot (10 lbs)

SCW.0005 - 1/2 pound slotted creep stand weight

SCW.0010 - 1 pound slotted creep stand weight

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### **ASTM, MISC, CREEP**

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<http://www.astm.org/Standards/D2990.htm>

ASTMD2990-09

Standard Test Methods for Tensile, Compressive, and Flexural Creep and Creep-Rupture of Plastics

1.1 These test methods cover the determination of tensile and compressive creep and creep-rupture of plastics under specified environmental conditions (see 3.1.3).

1.2 While these test methods outline the use of three-point loading for measurement of creep in flexure, four-point loading (which is used less frequently) can also be used with the equipment and principles as outlined in Test Methods D 790.

1.3 For measurements of creep-rupture, tension is the preferred stress mode because for some ductile plastics rupture does not occur in flexure or compression.

1.4 Test data obtained by these test methods are relevant and appropriate for use in engineering design.

1.5 The values stated in SI units are to be regarded as the standard. The values 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. A specific warning statement is given in 6.8.2.

Note 1-This standard and ISO 899 Parts 1 and 2 address the same subject matter, but differ in technical content (and results cannot be directly compared between the two test methods). ISO 899 Part 1 addresses tensile creep and creep to rupture and ISO 899 Part 2 addresses flexural creep. Compressive creep is not addressed in ISO 899.

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