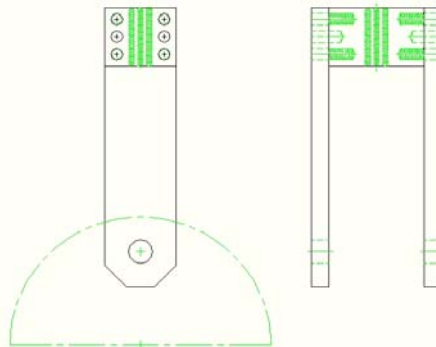


## SPLIT DISK FIXTURE FOR PLASTIC MATERIALS



Specimen	Width	Up to 2.00"
	Internal Dia	Supplied with one set of loading dee's 4.5" to 12"
Fixture	Construction	High Strength Steel with Black Oxide Finish and Anodized Aluminum
	Temperature	-20 to 120°F (-29 to 49°C)
	Mounting	Threaded 1"-14 Threaded Couplings
	Capacity	20,000 lbs (44 kN)
	Weight	30 lbs Approximately
	Dimensions	Assembled 3" x up to 12" x 20"
	Standard	Manufactured in accordance with ASTM D2290

### Model No. ASTM.D2290.21

Split Disk Loading test fixture for testing extruded plastic rings in accordance with ASTM D2290. The fixture will accept 2" wide loading dee sets from 4" to 24" internal diameter with a load capacity of 20,000 pounds. Constructed from high strength steel, aluminum loading Dee's with an anodizing finish and stainless steel fasteners. One loading dee set will be supplied with the fixture, any diameter between 4.5" and 12". (Please specify size when ordering.) The fixture is supplied with 1" -14 threaded couplings to fit your test machine in accordance with your specifications.

## **MODEL NO. ASTM.D2290.21**

### **ASTM, PLASTIC, COMPOSITE, TENSION**

#### **ACCESSORIES**

Model No. ACC.D2290.2101 - Additional Set of Aluminum Loading Dees, any size between 4" and 11.99" OD for up to 2.00" wide specimens as specified by customer. Please specify specimen ID size when ordering.

Model No. ACC.D2290.2102 - Additional Set of Aluminum Loading Dees, any size between 12" and 24.00" OD for up to 2.00" wide specimens as specified by customer. Please specify specimen ID size when ordering.

#### **Upper and lower fixture attachment is supplied with 1" -14 female coupling. (Common adapter sizes include:)**

Model No. M03S36 - 1.25" Male Clevis (Type D) to 1" -14 Threaded Stud

Model No. S42S36 - 1.25" -12 to 1" -14 Threaded Step Stud

Model No. S48S36 - 1.5" -12 to 1" -14 Threaded Step Stud

Model No. S60S36 - 2" -12 to 1" -14 Threaded Step Stud

Model No. LN36 - Threaded Locking Nut with Knurled OD

#### **SPARE PARTS**

High Strength Steel Loading Pins

#### **REFERENCE DOCUMENT AND TEST METHOD SCOPE:**

SCOPE: <http://www.astm.org/Standards/D2290.htm>

ASTMD2290-12

Standard Test Method for Apparent Hoop Tensile Strength of Plastic or Reinforced Plastic Pipe

1.1 This test method covers the determination of the comparative apparent tensile strength of most plastic products utilizing a split disk or ring segment test fixture, when tested under defined conditions of pretreatment, temperature, humidity, and test machine speed. This test method is applicable to reinforced-thermosetting resin pipe regardless of fabrication method. This test method also is applicable to extruded and molded thermoplastic pipe.

Procedure A is used for reinforced-thermosetting resin pipe; Procedure B is used for thermoplastic pipe of any size; Procedure C is used for thermoplastic pipe with nominal diameter of 4.5 in. (110 mm) and greater. Procedure D is used for polyethylene pipe with a nominal diameter of 14 in. (350 mm) and greater and preferably having wall thickness 1 in. (25 mm) and greater.

1.2 The values stated in inch-pound units are to be regarded as standard. The values given in parentheses are mathematical conversions to SI units that are provided for information only and are not considered standard.

1.3 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.

Extracted, with permission, from ASTM D2290 Standard Test Method for Apparent Hoop Tensile Strength of Plastic or Reinforced Plastic Pipe, copyright ASTM International, 100 Barr Harbor Drive, West Conshohocken, PA 19482. A copy of the complete standard may be purchased from ASTM International, [www.astm.org](http://www.astm.org).

*Material Testing Technology*

420 Harvester Court - Wheeling, IL. 60090 - Ph: (847) 215-7448 Fax: (847) 215-7449 E-mail: [sales@mtusa.net](mailto:sales@mtusa.net)