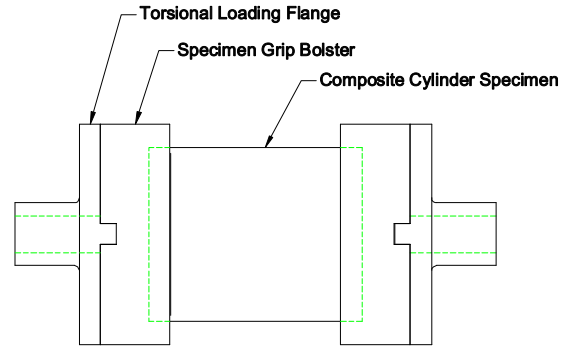


IN-PLANE SHEAR FIXTURE INCLUDING END LOADING CAP SET AND INNER AND OUTER SHELLS



| | | |
|-----------|----------|-------|
| Specimen: | Diameter | 4" OD |
| | Wall | 0.06" |
| | Length | 5.5" |

| | | |
|----------|--------------|--|
| Fixture: | Construction | High strength steel with protective finish |
| | Temperature | -120 to 250°F (-85 to 122°C) |
| | Mounting | Platen to platen |
| | Capacity | 10,000 lbs |
| | Weight | 45 lbs approximately |
| | Dimensions | Assembled - 5.5" x 4" x 14" |
| | Standard | Manufactured in accordance with ASTM D5448 |

Model No. ASTM.D5448.20 - Transverse Compression Test Fixture

These pipe end clamp type grips accommodate thin walled hoop wound cylindrical pipe specimens of 4" (100mm) diameter and 5.5" (140mm) long. Fixture includes (2) assemblies. Each assembly includes (1) outer shell with a groove, guide pins, (1) inserts, (2) torsional adapter ends, and an assembly bolt. Constructed of high strength steel in accordance with ASTM D5448. Fixture is for 4.000" OD with 0.060" wall only. Other wall thicknesses will require different inserts. Fixture is used platen to platen.

MODEL NO. ASTM.D5448.20

ASTM, IN-PLANE, SHEAR, HOOP, WOUND,

ACCESSORIES

Upper and lower fixture attachment is supported on a platen or flat surface of the test machine. (Common adapter sizes include:)

Model No. PLAT.RF061.10 - 6" Diameter Round Fixed Compression Platen

Model No. PLAT.RA061.10 - 6" Diameter Round Articulating Compression Platen

Model No. PLAT.SF061.10 - 6" Square Fixed Compression Platen

Model No. PLAT.SA061.10 - 6" Square Articulating Compression Platen

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

SPARE PARTS

Contact us for spare or replacement parts

REFERENCE DOCUMENT AND TEST METHOD SCOPE:

<http://www.astm.org/Standards/D5448.htm>

ASTM D5448/D5448M-11

Standard Test Method for Inplane Shear Properties of Hoop Wound Polymer Matrix Composite Cylinders

1.1 This test method determines the inplane shear properties of wound polymer matrix composites reinforced by high-modulus continuous fibers. It describes testing of hoop wound (90°) cylinders in torsion for determination of inplane shear properties.

1.2 The values stated in either SI units or inch-pound units are to be regarded separately as standard. Within the text the inch-pound units are shown in brackets. The values stated in each system are not exact equivalents; therefore, each system must be used independently of the other. Combining values from the two systems may result in nonconformance with the test method.

1.3 This standard does not purport to address all of the safety problems, 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 D5448 Standard Test Method for Inplane Shear Properties of Hoop Wound Polymer Matrix Composite Cylinders copyright ASTM International, 100 Barr Harbor Drive, West Conshohocken, PA 19428. A copy of the complete standard may be purchased from ASTM International, www.astm.org.