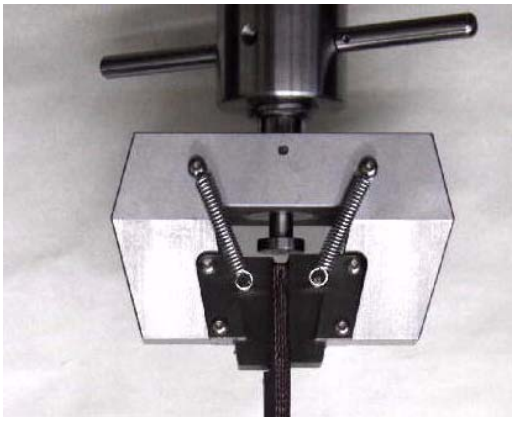
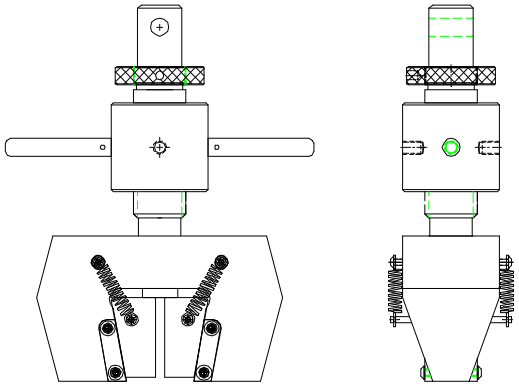
MTT

MODEL NO. ASTM.D5083.10

ASTM, GRIPS, TENSILE, TENSION, POLYMER,

20,000 LBS WEDGE ACTION GRIPS FOR SPECIMENS UP TO 2" WIDE OR 3/4" ROUND (GRIP FACES SOLD SEPARATELY)





Specimen:	Width	Up to 2” wide or 0.75” round
	Thickness	Up to 1” thick or 0.75” round
Fixture:	Construction	High strength steel with protective finish
	Temperature	-120 to 250°F (-85 to 122°C)
	Mounting	(2) 1.25” male clevis adapters
	Capacity	20,000 lbs
	Weight	50 lbs approximately
	Dimensions	9” x 9” x 22”
	Standard	Manufactured in accordance with ASTM A370, D3039, D5083, D5766, D6742, D7205, E8

Model No. ASTM.D5083.10- TITAN Series 20,000 lb Wedge Action Grips
Grips will accept replaceable grip faces for different size specimens up to 1.00" thick by 2.00" wide or 0.80" round. The initial clamping force is created by rotating the clamping collar with or without the handles. The grip faces are held in place with a retaining plate and spring. Supplied with (2) 1.25” male clevis (Type D) adapters. Constructed of high strength steel with a protective plated finish. Grip faces sold separately.

Material Testing Technology
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ACCESSORIES

ACC.T2018 - Set of (4), 2” wide flat grip faces for 0" to 0.2" specimens - Diamond
ACC.T2118 - Set of (4), 2” wide flat grip faces for 0.2” to 0.4" specimens - Diamond
ACC.T2218 - Set of (4), 2” wide flat grip faces for 0.4” to 0.6" specimens - Diamond
ACC.T2318 - Set of (4), 2” wide flat grip faces for 0.6” to 0.8" specimens - Diamond
ACC.T2418 - Set of (4), 2” wide flat grip faces for 0.8” to 1.0" specimens - Diamond
ACC.TR2106 - Set of (4), 2” wide vee groove grip faces for 0.1” to 0.3" round - Serrated
ACC.TR2206 - Set of (4), 2” wide vee groove grip faces for 0.2” to 0.4" round - Serrated
ACC.TR2306 - Set of (4), 2” wide vee groove grip faces for 0.3” to 0.5" round - Serrated
ACC.TR2406 - Set of (4), 2” wide vee groove grip faces for 0.4” to 0.6" round - Serrated
ACC.TR2506 - Set of (4), 2” wide vee groove grip faces for 0.5” to 0.7" round - Serrated
ACC.TR2606 - Set of (4), 2” wide vee groove grip faces for 0.6” to 0.8" round - Serrated
SFF.D3039.1001 -Specimen Fabrication Fixture for tabbing specimens.

SPARE PARTS

Contact us for spare or replacement parts

REFERENCE DOCUMENT AND TEST METHOD SCOPE:

http://www.astm.org/Standards/D5083.htm
ASTM D5083 - 10e1
Standard Test Method for Tensile Properties of Reinforced Thermosetting Plastics Using Straight-Sided Specimens
1.1 This test method covers the determination of the tensile properties of thermosetting reinforced plastics using test specimens of uniform nominal width when tested under defined conditions of pretreatment, temperature, humidity, and testing-machine speed.
NOTE 1: Experience with this test method to date has been limited to glass-reinforced thermosets. Applicability to other materials remains to be determined.
1.2 This test method can be used for testing materials of any thickness up to 14 mm (0.55 in.).
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 gage 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 that 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: Use of this test method for testing materials of thicknesses greater than 14 mm (0.55 in.) is not recommended. Reducing the thickness by machining may be acceptable for materials of uniform reinforcement amount and direction, but is generally not recommended.
1.3 Test data obtained by this test method is relevant and appropriate for use in engineering design.
1.4 The values stated in SI units are to be regarded as standard. The inch-pound units given in parentheses are for information only.
1.5 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.
NOTE 4: This test method is technically equivalent to ISO 527-4 except as noted below:
(a) This test method does not include testing of the Type I dogbone shaped specimen described in ISO 527-4. Testing of this type of specimen, primarily used for reinforced and un-reinforced thermoplastic materials, is described in Test Method D638.
(b) The thickness of test specimens in this test method includes the 2 mm to 10 mm thickness range of ISO 527-4, but expands the allowable test thickness to 14 mm. NOTE 5: 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 or ISO 527 Part 5.
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