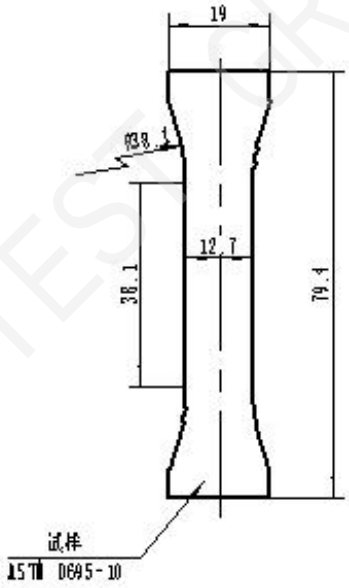
ASTM D695 Compression Test on Composites and Plastics

HST GROUP
Focus In Material Test

Applications:

»ASTM D695 is a standard test method used to determine the compressive properties of rigid plastics. This test is crucial for assessing how these materials perform under compression, which is essential for ensuring the safety and reliability of products in industries like automotive and aerospace. In this article, we will explore the key aspects of ASTM D695, including its methodology, specimen requirements, and the importance of the data it provides.

»The following text is limited to the ASTM D695 test setup with support jig for high-modulus and reinforced plastics with a laminate thickness of < 3.2 mm. The end loading compression tests to DIN EN 2850 Method B, Boeing BSS 7260 Type III & IV (modified ASTM D695) and SACMA SRM-1R-94, which have been further developed from ASTM D695, are also described. The latter also enable compression tests on unidirectional (UD) carbon fiber-reinforced laminates with correspondingly high stiffness and strength.



Parameter:

Model	HST-ZYB204J
Standards	ASTM D3846, ASTM D695, EN 2850 (type B1&B2 Specimen)
Capacity(kN)	20
Loading method	End loading
Specimen size	79.5x12.7×(2～6), (75~80)×12.5x2mm
Temperature(℃)	-70~350