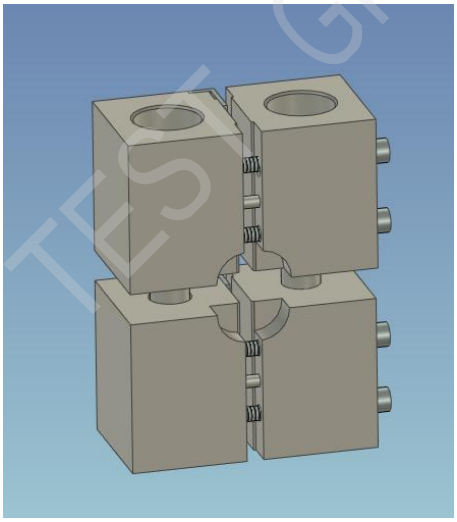
ASTM D6641 Combined Loading Compression (CLC) Test for Polymer Matrix Composite Laminates

HST GROUP
Focus In Material Test

Applications:

ASTM ASTM D6641 is a testing standard that determines the compressive strength and stiffness properties of polymer matrix composite materials using a combined loading compression (CLC) test fixture. This test method is designed to produce compressive property data on polymer matrix - mainly used in the Aerospace industry - for the purposes of research and development, quality assurance, and structural design and analysis. ASTM D6641 can be used to test unidirectional (0° ply orientation) composites as well as multi-directional composite laminates, fabric composites, chopped fiber composites, and similar materials.

ASTM D6641 includes two procedures; Procedure A: to be used with untabbed specimens such as fabrics, chopped fiber composites, laminates with a maximum of 50% 0˚ plies and Procedure B: to be used with tabbed specimens with a higher orthotropy such as unidirectional composites. The use of tabs is necessary to increase the load-bearing area at the specimen ends. Before conducting ASTM D6641, it is important to read the entire specification in the relevant ASTM publication



Parameter:

Model	HST-ZYB204I
Standards	ASTM D6641
Capacity	20kN
Specimen size(LxWxT)	140x12x(1 ～ 4)mm
Clamping range	0～12.7mm
Temperature	-70~350℃