



## NCCEF - UKAS Accreditation



4566

The National Composites Certification and Evaluation Facility (NCCEF) is an independent ISO 17025 accredited test laboratory (test centre No 4566). The accreditation was assessed by the United Kingdom Accreditation Service (UKAS) against a suite of international ASTM composite material test procedures. This demonstrates the competence, impartiality and performance capabilities of the NCCEF laboratory. The list of accredited tests can be found at the back.



We have proven to our customers that we have been successful in meeting the requirements of international accreditation standards and consequently give them confidence in an increasingly diverse global marketplace by ensuring consistently high standards in the quality of our products and services. We are active partners within international committees to develop standardized test methods for composite materials thus ensuring we are fully up-to-date with the correct standards.

Whilst currently outside the scope of the ISO 17025 accreditation, the test laboratories are supported by a wide variety of industrially relevant NDE and composite manufacturing processes including the world class X-ray tomography capability housed in the Henry Moseley Laboratory of the University of Manchester.

Type of Test	Relevant Standard	Details of Test
Tensile	ASTM.D638	Tensile Properties of Plastics
	ASTM.D3039, ISO 527	Tensile Properties of Polymer Matrix Composite Materials
	ASTM.D5766	Open-Hole Tensile Strength of Polymer Matrix Composite Laminates
	ASTM.D6742	Filled-Hole Tension and Compression Testing of Polymer Matrix Composite Laminates
	ASTM.D695	Compressive Properties of Rigid Plastics
Compression	ASTM.D3410, ISO 14126	Compressive Properties of Polymer Matrix Composite Materials with Unsupported Gage Section by Shear Loading
	ASTM.D6484	Open-Hole Compressive Strength of Polymer Matrix Composite Laminates
	ASTM.D6641	Compressive Properties of Polymer Matrix Composite Materials Using a Combined Loading Compression (CLC) Test Fixture
	BS.EN2563, ISO 14130	Short-Beam Strength of Polymer Matrix Composite Materials and Their Laminates
	ASTM.D3518	In-Plane Shear Response of Polymer Matrix Composite Materials by Tensile Test of a +45° Laminate
Shear	ASTM.D3846	In-Plane Shear Strength of Reinforced Plastics
	ASTM.D5379	Shear Properties of Composite Materials by the V-Notched Beam Method
Flexural	ASTM.D790, ISO 14125	Flexural Properties of Unreinforced and Reinforced Plastics and Electrical Insulating Materials
Bearing Strength	ASTM.D5961	Bearing Response of Polymer Matrix Composite Laminates
Mode I	ASTM.D5528	Mode I Interlaminar Fracture Toughness of Unidirectional Fibre-Reinforced Polymer Matrix Composites
Flatwise Tensile	ASTM.C297	Flatwise Tensile Strength of Sandwich Constructions
Sandwich Flexural	ASTM.C393	Core Shear Properties of Sandwich Constructions by Beam Flexure