



Testing Standards Performed in our Laboratory

Static Testing

ASTM C273	Standard Test Method for Shear Properties of Sandwich Core Materials for Sandwich Constructions
ASTM C297	Standard Test Method for Flatwise Tensile Strength of Sandwich Constructions
ASTM C364	Standard Test Method for Edgewise Compressive Strength of Sandwich Constructions
ASTM C365	Standard Test Method for Flatwise Compressive Properties of Sandwich Cores
ASTM C393	Standard Test Method for Flexural Properties of Sandwich Constructions
ASTM D256	Standard Test Methods for Determining the Izod Pendulum Impact Resistance of Plastics
ASTM D570	Standard Test Method for Water Absorption of Plastics
ASTM D638	Standard Test Method for Tensile Properties of Plastics
ASTM D648	Standard Test Method for Deflection Temperature of Plastics Under Flexural Load in the Edgewise Position
ASTM D671	Standard Test Method for Flexural Fatigue of Plastics by Constant-Amplitude-of-Force
ASTM D695	Standard Test Method for Compressive Properties of Rigid Plastics
ASTM D732	Standard Test Method for Shear Strength of Plastics by Punch Tool
ASTM D790	Standard Test Methods for Flexural Properties of Unreinforced and Reinforced Plastics and Electrical Insulating Materials
ASTM D792	Standard Test Methods for Density and Specific Gravity (Relative Density) of Plastics by Displacement
ASTM D882	Standard Test Method for Tensile Properties of Thin Plastic Sheeting
ASTM D953	Standard Test Method for Bearing Strength of Plastics
ASTM D1062	Standard Test Method for Cleavage Strength of Metal-to-Metal Adhesive Bonds
ASTM D1621	Standard Test Method for Compressive Properties of Rigid Cellular Plastics
ASTM D1623	Standard Test Method for Tensile and Tensile Adhesion Properties of Rigid Cellular Plastics

ASTM D2240 Standard Test Method for Rubber Property-Durometer Hardness

ASTM D2290 Standard Test Method for Apparent Tensile Strength of Ring or Tubular Plastics and Reinforced Plastics by Split Disk Method

ASTM D2343 Standard Test Method for Tensile Properties of Glass Fiber Strands, Yarns, and Rovings Used in Reinforced Plastics

ASTM D2344 Standard Test Method for Short-Beam Strength of Polymer Matrix Composites Materials and Their Laminates

ASTM D2471 Standard Test Method for Gel Time and Peak Exothermic Temperature of Reacting Thermosetting Resins

ASTM D2583 Standard Test Method for Indentation Hardness of Rigid Plastics by Means of a Barcol Impressor

ASTM D2584 Standard Test Method for Ignition Loss of Cured Reinforced Resins

ASTM D2734 Standard Test Methods for Void Content of Reinforced Plastics

ASTM D3039 Standard Test Method for Tensile Properties of Polymer Matrix Composite Materials

ASTM D3410 Standard Test Method for Compressive Properties of Polymer Matrix Composite Materials with Unsupported Gage Section by Shear Loading

ASTM D3163 Standard Test Method for Determining Strength of Adhesively Bonded Rigid Plastic Lap-Shear Joints in Shear by Tension Loading

ASTM D3164 Standard Test Method for Strength Properties of Adhesively Bonded Plastic Lap-Shear Sandwich Joints in Shear by Tension Loading

ASTM D3846 Standard Test Method for In-Plane Shear Strength of Reinforced Plastics

ASTM D4812 Standard Test Method for Unnotched Cantilever Beam Impact Strength of Plastics

ASTM D5083 Standard Test Method for Tensile Properties of Reinforced Thermosetting Plastics Using Straight-Sided Specimens

ASTM D5379 Standard Test Method for Shear Properties of Composite Materials by the V-Notched Beam Method

ASTM D5628 Standard Test Method for Impact Resistance of Flat, Rigid Plastic Specimens by Means of a Falling Dart (Tup or Falling Mass)

ASTM D6110 Standard Test Method for Determining the Charpy Impact Resistance of Notched Specimens of Plastics

ASTM D6272 Standard Test Methods for Flexural Properties of Unreinforced and Reinforced Plastics and Electrical Insulating Materials by Four-Point Bending

ASTM D6641 Standard Test Method for Determining the Compressive Properties of Polymer Matrix Composites Laminates Using a Combined Loading Test Fixture

ASTM D7078 Standard Test Method for Shear Properties of Composite Materials by V-Notched Rail Shear Method

ASTM D7205	Standard Test Method for Tensile Properties of Fiber Reinforced Polymer Matrix Composite Bars
ASTM D7249	Standard Test Method for Facing Properties of Sandwich Constructions by Long Beam Flexure
ASTM D7250	Standard Practice for Determining Sandwich Beam Flexural and Shear Stiffness
ASTM D7264	Standard Test Method for Flexural Properties of Polymer Matrix Composite Materials
ASTM F1306	Standard Test Method for Slow Rate Penetration Resistance of Flexible Barrier Films and Laminates
ISO 75-2	Plastics – Determination of temperature of deflection under load
ISO 178	Plastics – Determination of flexural properties
ISO 527-4,5	Plastics – Determination of tensile properties-
ISO 14126	Fiber-reinforced plastic composites – Determination of compressive properties in the in-plane direction
ISO 14129	Fiber-reinforced plastic composites – Determination of the in-plane shear stress/shear strain response, including the in-plane shear modulus and strength, by the $\pm 45^\circ$ tension test method
ISO 14130	Fiber-reinforced plastic composites – Determination of apparent interlaminar shear strength by short-beam method

Dynamic Testing

ASTM D3479	Standard Test Method for Tension-Tension Fatigue of Polymer Matrix Composite Materials
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Instrumental Impact

ASTM D3763	Standard Test Method for High Speed Puncture Properties of Plastics Using Load and Displacement Sensors
ASTM D5628	Standard Test Method for Impact Resistance of Flat, Rigid Plastic Specimens by Means of a Falling Dart (Tup or Falling Mass)
ASTM D7136	Standard Test Method for Measuring the Damage Resistance of a Fiber-Reinforced Polymer Matrix Composite to a Drop-Weight Impact Event
ISO 6603-1,2	Plastics – Determination of puncture impact behavior of rigid plastics
ISO 7765-2	Plastics film and sheeting – Determination of impact resistance by the free-falling dart method

Thermal Analysis

ASTM D3417 Standard Test Method for Enthalpies of Fusion and Crystallization of Polymers by Differential Scanning Calorimetry (DSC)

ASTM D3418 Standard Test Method for Transition Temperatures of Polymers by Differential Scanning Calorimetry (DSC)

Other Tests

ASTM D3171 Standard Test Methods for Constituent Content of Composites Materials