



This certificate is granted and awarded by the authority of the Nadcap Management Council to:

Westmoreland Mechanical Testing

*221 Westmoreland Drive
Youngstown, PA 15696
United States*

This certificate demonstrates conformance and recognition of accreditation for specific services, as listed in www.eAuditNet.com on the Qualified Manufacturers List (QML), to the revision in effect at the time of the audit for:

Non Metallic Materials Testing

Certificate Number: 3445169951
Expiration Date: 31 January 2019

Joseph G. Pinto
Executive Vice President and Chief Operating Officer



SCOPE OF ACCREDITATION

Non Metallic Materials Testing

Westmoreland Mechanical Testing

221 Westmoreland Drive
Youngstown, PA 15696

This certificate expiration is updated based on periodic audits. The current expiration date and scope of accreditation are listed at: www.eAuditNet.com - Online QML (Qualified Manufacturer Listing).

In recognition of the successful completion of the PRI evaluation process, accreditation is granted to this facility to perform the following:

AC7122/1 Rev B - Nadcap Audit Criteria for Non Metallic Materials Testing – Mechanical Testing

- 1.1.1 Tensile Ambient Temperature
- 1.1.2 Tensile Non–ambient Temperature
- 1.1.3 Tensile Strain Measurement
- 1.1.4 Tensile/Elongation
- 1.10.1 T–Peel
- 1.11.1 Peel (180°)
- 1.12.1 Climbing Drum Peel
- 1.13.1 Floating Roller Peel
- 1.17.1 Bearing Strength
- 1.18.1 G1c
- 1.19.1 G2c
- 1.2.1 Compression Ambient Temperature
- 1.2.2 Compression Non–ambient Temperature
- 1.2.3 Compression Strain Measurement
- 1.2.5 Flatwise Compressive, Ambient
- 1.2.6 Flatwise Compressive Non–Ambient
- 1.2.7 Flatwise Compressive Strain Measurement
- 1.20.1 Compression after Impact CAI
- 1.21.1 Flatwise tension Sandwich
- 1.22.1 Sandwich Flexure
- 1.23.1 Tube Shear
- 1.3.1 Shear Ambient Temperature by SBS
- 1.3.2 Shear Ambient Temperature ± 45 Tension

- 1.3.3 Shear Ambient Temperature by Compression
- 1.3.4 Shear Ambient Temperature by V Notch
- 1.3.5 Shear Non–ambient (any method)
- 1.3.6 Shear Strain Measurement
- 1.3.7 Plate Shear, Ambient
- 1.3.8 Plate Shear, Non–Ambient
- 1.3.9 Plate Shear, Strain Measurement
- 1.4.1 Flexural Ambient Temp
- 1.4.2 Flexural Non–ambient
- 1.4.3 Flexural Strain measurement
- 1.8.1 Double Lap Shear Ambient Temperature
- 1.8.2 Double Lap Shear Non–ambient Temperature
- 1.9.1 Single Lap Shear Ambient Temperature
- 1.9.2 Single Lap Shear Non–ambient Temperature

AC7122-I Rev C - Nadcap Audit Criteria for Non Metallic Materials Testing (Required) (to be used on audits on/after 20 March 2016)

Class A: Composites

Class B: Adhesive/Adhesive Primer

Class C: Elastomers

Class D: Core



This certificate is granted and awarded by the authority of the Nadcap Management Council to:

Westmoreland Mechanical Testing

*14 Bayhill Drive
Latrobe, PA 15650
United States*

This certificate demonstrates conformance and recognition of accreditation for specific services, as listed in www.eAuditNet.com on the Qualified Manufacturers List (QML), to the revision in effect at the time of the audit for:

Non Metallic Materials Testing

Certificate Number: 11237173114
Expiration Date: 31 July 2018

Joseph G. Pinto
Executive Vice President and Chief Operating Officer



SCOPE OF ACCREDITATION

Non Metallic Materials Testing

Westmoreland Mechanical Testing

14 Bayhill Drive
Latrobe, PA 15650

This certificate expiration is updated based on periodic audits. The current expiration date and scope of accreditation are listed at: www.eAuditNet.com - Online QML (Qualified Manufacturer Listing).

In recognition of the successful completion of the PRI evaluation process, accreditation is granted to this facility to perform the following:

AC7122/1 Rev B - Nadcap Audit Criteria for Non Metallic Materials Testing – Mechanical Testing

- 1.1.1 Tensile Ambient Temperature
- 1.1.2 Tensile Non–ambient Temperature
- 1.1.3 Tensile Strain Measurement
- 1.1.4 Tensile/Elongation
- 1.10.1 T–Peel
- 1.11.1 Peel (180°)
- 1.12.1 Climbing Drum Peel
- 1.13.1 Floating Roller Peel
- 1.17.1 Bearing Strength
- 1.18.1 G1c
- 1.19.1 G2c
- 1.2.1 Compression Ambient Temperature
- 1.2.2 Compression Non–ambient Temperature
- 1.2.3 Compression Strain Measurement
- 1.2.4 Compression Set
- 1.2.5 Flatwise Compressive, Ambient
- 1.2.6 Flatwise Compressive Non–Ambient
- 1.2.7 Flatwise Compressive Strain Measurement
- 1.20.1 Compression after Impact CAI
- 1.21.1 Flatwise tension Sandwich
- 1.22.1 Sandwich Flexure
- 1.23.1 Tube Shear
- 1.24.1 Tear

- 1.25.1 Node Bond Delamination
- 1.3.1 Shear Ambient Temperature by SBS
- 1.3.2 Shear Ambient Temperature ± 45 Tension
- 1.3.3 Shear Ambient Temperature by Compression
- 1.3.4 Shear Ambient Temperature by V Notch
- 1.3.5 Shear Non-ambient (any method)
- 1.3.6 Shear Strain Measurement
- 1.3.7 Plate Shear, Ambient
- 1.3.8 Plate Shear, Non-Ambient
- 1.3.9 Plate Shear, Strain Measurement
- 1.4.1 Flexural Ambient Temp
- 1.4.2 Flexural Non-ambient
- 1.4.3 Flexural Strain measurement
- 1.7.1 Impact Strength
- 1.8.1 Double Lap Shear Ambient Temperature
- 1.8.2 Double Lap Shear Non-ambient Temperature
- 1.9.1 Single Lap Shear Ambient Temperature
- 1.9.2 Single Lap Shear Non-ambient Temperature

AC7122/2 Rev A - Nadcap Audit Criteria for Non Metallic Materials Testing – Physical Testing

- 2.1.2 Hardness Testing: Barcol
- 2.1.3 Hardness Testing: Shore
- 2.11.1 Low Temperature Brittleness
- 2.12.1 Effects of Liquids
- 2.17.1 Deterioration in Air Oven
- 2.2.1 Density/ Specific Gravity
- 2.2.2 Fiber Tow Density (Archimedes Method)
- 2.3.1 Resin/Fiber /Void Content by: Acid Digestion
- 2.3.2 Resin/Fiber /Void Content by: Burn off
- 2.3.3 Resin/Fiber /Void Content by: Solvent wash
- 2.4.1 Water Absorption
- 2.5.1 Volatile Content
- 2.6.1 Gel Time
- 2.7.1 Flow
- 2.8.1 Fiber Areal Weight
- 2.8.2 Prepreg Areal/Adhesive Film Weight

AC7122/4 Rev A - Nadcap Audit Criteria for Non Metallic Materials Testing – Thermal Analysis

- 4.1.1 Dynamic Mechanical Analysis (DMA)
- 4.2.1 Thermogravimetric Analysis (TGA)
- 4.3.1 Differential Scanning Calorimetry (DSC)

4.4.1 TMA: Glass Transition TemperatureTMA

4.5.1 DSC: Specific Heat CapacitySpecific

4.6.2 TMA: Linear Thermal Expansion of SolidsCTE

AC7122-I Rev C - Nadcap Audit Criteria for Non Metallic Materials Testing (Required) (to be used on audits on/after 20 March 2016)

Class A: Composites

Class B: Adhesive/Adhesive Primer

Class C: Elastomers

Class D: Core