



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

## ***Westmoreland Mechanical Testing and Research, Inc.***

*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](http://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: 3445180169  
Expiration Date: 31 January 2021

Joseph G. Pinto  
Executive Vice President and Chief Operating Officer



## SCOPE OF ACCREDITATION

### Non Metallic Materials Testing

**Westmoreland Mechanical Testing and Research, Inc.**  
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](http://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
- 1.18.1 G1c
- 1.19.1 G2c
- 1.2.1 Compression Ambient Temperature
- 1.2.2 Compression Non–ambient Temperature
- 1.2.3 Compression Strain Measurement
- 1.20.1 Compression after Impact CAI
- 1.21.1 Flatwise tension Sandwich
- 1.22.1 Sandwich Flexure
- 1.23.1 Tube Shear
- 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 D - Nadcap Audit Criteria for Non Metallic Materials Testing (Required) (to be**

**used on audits on/after 7 May 2017)**

Class A: Composites

Class B: Adhesive/Adhesive Primer

Class C: Elastomers



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

## ***Westmoreland Mechanical Testing and Research, Inc.***

*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](http://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: 11237179963  
Expiration Date: 31 January 2020

Joseph G. Pinto  
Executive Vice President and Chief Operating Officer



## SCOPE OF ACCREDITATION

### Non Metallic Materials Testing

**Westmoreland Mechanical Testing and Research, Inc.**  
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](http://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  $\pm 45$  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
- 2.3.1 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 D - Nadcap Audit Criteria for Non Metallic Materials Testing (Required) (to be used on audits on/after 7 May 2017)**

Class A: Composites

Class B: Adhesive/Adhesive Primer

Class C: Elastomers

Class D: Core

**Fabrication - Codes**

F.2.1 Specimen Fabrication

F.3.1 Specimen Machining