

September 2, 2025

■ TEST REPORT ■

PN 181035
P.O. 53693

Physical Testing Resistivity Testing

Prepared For:

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An A2LA ISO 17025 Accredited Testing Laboratory-
Certificate Numbers 255-01, 255-02, 255-03 and 255-04
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SUBJECT: Evaluate Resistivity of uncured compound supplied by Alliance Rubber.

RECEIVED: Uncured Material Band Material 8-22.

Decision Rule 1 Applied (*unless noted below*)
Test Location: Akron

SAMPLE PREPERATION

Samples were vulcanized for 30 minutes at 320°F

TESTING

VOLUME RESISTIVITY TEST, ASTM D257

Conditioning - Samples conditioned for 40 hours at 23 °C and 50 % RH, test conducted @ 23 °C, 53% RH

Test Procedure: Samples placed into the unguarded electrode configuration (Figure 4 of ASTM D 257).

VDC applied for one minute. Applied voltage and the resultant current measured.

Guarded Electrode: 76 mm diameter

Unguarded Electrode: 88 mm inner diameter, 100 mm outside diameter

Results – Median of 3 measurements

| Sample ID | Thickness | | Voltage | | Current | | Resistance | | Resistivity | |
|--------------------|-----------|----|---------|-----|----------|---|--------------------------|---|--------------------------|--------|
| Band Material 8-22 | 1.96 | mm | 64.7 | VDC | 1.38E-02 | A | 4.17 x 10 ⁺⁰³ | Ω | 1.14 x 10 ⁺⁰⁶ | Ω * cm |

Observations – Specimens were at a steady state when measured.

SURFACE RESISTANCE METER^

HZR Model 100

| | |
|--------------------|---|
| <u>Sample</u> | <u>Result</u> |
| Band Material 8-22 | 10 ^{8th} Ohms (static dissipative) |

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Decision Rules


Rule 1. This is the way test results have traditionally been reported by ARDL. If ARDL runs a test for you that has pass/fail requirements, ARDL will report the values observed and then state "Pass" or "Fail", based on those values only. By default, ARDL will apply this rule to all Category I tests and those tests which are not on ARDL's Scope of Accreditation.

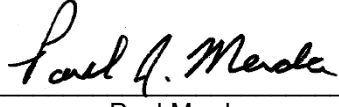
Rule 2. This rule takes into account the calculated measurement uncertainty of test results generated. Every test and piece of test equipment has an inherent amount of measurement uncertainty associated with it. Rule 2 establishes "Guard Bands" where the measurement uncertainty value is added to the Minimum Passing requirement and is subtracted from the Maximum Passing requirement. The Pass/Fail requirements thus become tighter and customers may be more "Certain" of their Pass/Fail result.

Rule 3. This rule also takes into account measurement uncertainty but does not set up guard bands. Rule 3 may be used when values are reported, but there is no Pass/Fail requirement called out in the test specification. Rule 3 simply states that the measurement uncertainty is reported to the customer, along with the testing result generated, and the customer decides if the results are suitable for their purposes.

Report Revision Log

| <u>Date</u> | <u>Report Revision</u> | <u>Description</u> |
|-------------|------------------------|--------------------|
| 9/2/2025 | New | |

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