

## Arlon 48981R010 0.0100" Uncured Silicone Rubber with Fiberglass Substrate

Category : Polymer , Thermoset , Silicone , Silicone, Molded, Glass Fiber Filled

### Material Notes:

Design/Construction: Interleave 1: 3 mil Polyethylene Side 1: Uncured Rubber Substrate: Style 1080 Fiberglass Side 2: Uncured Silicone Rubber Interleave 2: 3 mil Polyethylene This data represents typical values for the production material and should not be used as material specifications. Information provided by ARLON Silicone Technologies Division.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Arlon-48981R010-00100-Uncured-Silicone-Rubber-with-Fiberglass-Substrate.php](http://www.lookpolymers.com/polymer_Arlon-48981R010-00100-Uncured-Silicone-Rubber-with-Fiberglass-Substrate.php)

| Physical Properties | Metric       | English                   | Comments                             |
|---------------------|--------------|---------------------------|--------------------------------------|
| Density             | 1.35 g/cc    | 0.0488 lb/in <sup>3</sup> | Silicone Property; Arlon SQA-TMS-024 |
| Thickness           | 76.2 microns | 3.00 mil                  | Substrate; Arlon SQA-TMS-003         |
|                     | 88.9 microns | 3.50 mil                  | Side 1; Arlon SQA-TMS-003            |
|                     | 88.9 microns | 3.50 mil                  | Side 2; Arlon SQA-TMS-003            |
|                     | 254 microns  | 10.0 mil                  | Overall Thickness; Arlon SQA-TMS-003 |

| Mechanical Properties | Metric     | English  | Comments                            |
|-----------------------|------------|----------|-------------------------------------|
| Hardness, Shore A     | 60         | 60       | Silicone Property; ASTM D2240       |
| Tensile Strength      | 4.83 MPa   | 700 psi  | Silicone Property; ASTM D412        |
| Elongation at Break   | 200 %      | 200 %    | Silicone Property; ASTM D412        |
| Peel Strength         | 0.894 kN/m | 5.10 pli | Bond Strength (S1 to S1); ASTM D624 |

| Thermal Properties                 | Metric   | English  | Comments |
|------------------------------------|----------|----------|----------|
| Maximum Service Temperature, Inert | 232 °C   | 450 °F   |          |
| Minimum Service Temperature, Air   | -56.7 °C | -70.0 °F |          |
| UL RTI, Electrical                 | 220 °C   | 428 °F   | E54153   |
| UL RTI, Mechanical without Impact  | 220 °C   | 428 °F   | E54153   |

| Electrical Properties | Metric     | English   | Comments  |
|-----------------------|------------|-----------|-----------|
| Dielectric Strength   | 19.7 kV/mm | 500 kV/in | ASTM D149 |

| Processing Properties | Metric | English | Comments |
|-----------------------|--------|---------|----------|
|-----------------------|--------|---------|----------|

| Processing Properties | 120 min<br>Metric                          | 2.00 hour<br>English                      | Comments                    |
|-----------------------|--------------------------------------------|-------------------------------------------|-----------------------------|
|                       | @Temperature 204 °C                        | @Temperature 400 °F                       | Recommended Post Cure Cycle |
|                       | 1.50 min                                   | 0.0250 hour                               |                             |
|                       | @Pressure 0.345 MPa,<br>Temperature 121 °C | @Pressure 50.0 psi,<br>Temperature 250 °F | Recommended Cure Cycle      |
| Shelf Life            | 6.00 Month                                 | 6.00 Month                                |                             |
|                       | @Temperature 23.9 °C                       | @Temperature 75.0 °F                      |                             |

| Descriptive Properties        | Value | Comments          |
|-------------------------------|-------|-------------------|
| Color                         | Red   |                   |
| Total Product Weight (oz/yd2) | 9.5   | Arlon SQA-TMS-025 |

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