

## Arlon 47576R009 0.0095" (0.241 mm) Cured/Uncured Silicone Rubber with Fiberglass Substrate

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

### Material Notes:

Design/Construction: Side 1: Cured Rubber Side 2: Uncured Rubber Appearance: Red silicone gum and rubber on fiberglass cloth This data represents typical values for the production material. The data should not be used to write, or in place of, material specifications. Information provided by Arlon, Silicone Technologies Division

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Arlon-47576R009-00095-0241-mm-CuredUncured-Silicone-Rubber-with-Fiberglass-Substrate.php](http://www.lookpolymers.com/polymer_Arlon-47576R009-00095-0241-mm-CuredUncured-Silicone-Rubber-with-Fiberglass-Substrate.php)

| Physical Properties | Metric            | English         | Comments                                |
|---------------------|-------------------|-----------------|---|
| Thickness           | 38.1 microns      | 1.50 mil        | Polyethylene Interleave                 |
|                     | 50.8 microns      | 2.00 mil        | Side 1                                  |
|                     | >= 76.2 microns   | >= 3.00 mil     | Side 2                                  |
|                     | 88.9 microns      | 3.50 mil        | Prime Coated 2113 Fiberglass, Substrate |
|                     | 216 - 267 microns | 8.50 - 10.5 mil | Overall                                 |

| Mechanical Properties | Metric        | English     | Comments             |
|-----------------------|---------------|-------------|----------------------|
| Hardness, Shore A     | 40 - 50       | 40 - 50     | Compound Property    |
| Tensile Strength      | >= 5.52 MPa   | >= 800 psi  | Compound Property    |
| Elongation at Break   | >= 500 %      | >= 500 %    | Compound Property    |
| Peel Strength         | >= 0.877 kN/m | >= 5.00 pli | [ppi], Bond Strength |

| Thermal Properties                | Metric   | English  | Comments           |
|-----------------------------------|----------|----------|--------------------|
| Maximum Service Temperature, Air  | 232 °C   | 450 °F   |                    |
| Minimum Service Temperature, Air  | -56.7 °C | -70.0 °F |                    |
| UL RTI, Electrical                | 200 °C   | 392 °F   | per UL Card E54153 |
| UL RTI, Mechanical without Impact | 220 °C   | 428 °F   | per UL Card E54153 |
| Flammability, UL94                | HB       | HB       |                    |

| Electrical Properties | Metric        | English      | Comments |
|-----------------------|---------------|--------------|----------|
| Dielectric Strength   | >= 15.7 kV/mm | >= 400 kV/in |          |

| Processing Properties | Metric               | English              | Comments                   |
|-----------------------|----------------------|----------------------|----------------------------|
| Cure Time             | 15.0 min             | 0.250 hour           | Recommended Cure Cycle     |
|                       | @Temperature 177 °C  | @Temperature 350 °F  |                            |
|                       | 120 min              | 2.00 hour            | Recommended Postcure Cycle |
|                       | @Temperature 204 °C  | @Temperature 400 °F  |                            |
| Shelf Life            | 6.00 Month           | 6.00 Month           | From date of manufacture   |
|                       | @Temperature 21.1 °C | @Temperature 70.0 °F |                            |

| Descriptive Properties         | Value     | Comments                           |
|--------------------------------|-----------|------------------------------------|
| Color                          | Red       |                                    |
| Total Product Weight (oz/yd2)  | 9.6 - 11  |                                    |
| Uncoated Fabric Break Strength | 195 lb/in | Warp Direction, Substrate Property |
|                                | 75 lb/in  | Fill Direction, Substrate Property |

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