

## Arlon 18986XA023 0.023" Uncured/Cured Silicone Rubber with Fiberglass Substrate

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

### Material Notes:

Design/Construction: Side 1: Cured Silicone Rubber Substrate: Style 11523 Fiberglass Side 2: Uncured Silicone Rubber Interleave: 2.5 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-18986XA023-0023-UncuredCured-Silicone-Rubber-with-Fiberglass-Substrate.php](http://www.lookpolymers.com/polymer_Arlon-18986XA023-0023-UncuredCured-Silicone-Rubber-with-Fiberglass-Substrate.php)

| Physical Properties | Metric      | English                   | Comments                             |
|---------------------|-------------|---------------------------|--------------------------------------|
| Density             | 1.60 g/cc   | 0.0578 lb/in <sup>3</sup> | Silicone Property; Arlon SQA-TMS-024 |
| Thickness           | 102 microns | 4.00 mil                  | Side 1; Arlon SQA-TMS-003            |
|                     | 102 microns | 4.00 mil                  | Side 2; Arlon SQA-TMS-003            |
|                     | 381 microns | 15.0 mil                  | Substrate; Arlon SQA-TMS-003         |
|                     | 584 microns | 23.0 mil                  | Overall Thickness; Arlon SQA-TMS-003 |

| Mechanical Properties | Metric     | English  | Comments                             |
|-----------------------|------------|----------|--------------------------------------|
| Hardness, Shore A     | 72         | 72       | Silicone Property; Arlon SQA-TMS-014 |
| Tensile Strength      | 4.83 MPa   | 700 psi  | Silicone Property; Arlon SQA-TMS-008 |
| Elongation at Break   | 190 %      | 190 %    | Silicone Property; Arlon SQA-TMS-008 |
| Peel Strength         | 0.771 kN/m | 4.40 pli | Bond Strength; Arlon SAQ-TMS-011     |

| Thermal Properties                 | Metric   | English  | Comments          |
|------------------------------------|----------|----------|-------------------|
| Maximum Service Temperature, Inert | 204 °C   | 400 °F   |                   |
| Minimum Service Temperature, Air   | -56.7 °C | -70.0 °F |                   |
| Flammability, UL94                 | V-0      | V-0      | Arlon SQA-TMS-019 |

| Electrical Properties | Metric        | English      | Comments          |
|-----------------------|---------------|--------------|-------------------|
| Dielectric Strength   | >= 20.0 kV/mm | >= 509 kV/in | Arlon SQA-TMS-020 |

| Processing Properties | Metric                                     | English                                   | Comments                    |
|-----------------------|--------------------------------------------|-------------------------------------------|-----------------------------|
| Cure Time             | 120 min                                    | 2.00 hour                                 | Recommended post Cure Cycle |
|                       | @Temperature 204 °C                        | @Temperature 400 °F                       |                             |
|                       | 15.0 min                                   | 0.250 hour                                | Recommended Cure Cycle      |
|                       | @Pressure 0.345 MPa,<br>Temperature 121 °C | @Pressure 50.0 psi,<br>Temperature 250 °F |                             |
| Shelf Life            | 6.00 Month                                 | 6.00 Month                                |                             |
|                       | @Temperature 21.1 °C                       | @Temperature 70.0 °F                      |                             |

| Descriptive Properties        | Value | Comments          |
|-------------------------------|-------|-------------------|
| Color                         | Gray  |                   |
| Total Product Weight (oz/yd2) | 15.9  | Arlon SQA-TMS-025 |

## Contact Songhan Plastic Technology Co.,Ltd.

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