

## Arlon A3020-R004-12 0.020" (0.508 mm) Cured Fusible Silicone Rubber with Sinusoidal Fiberglass Substrate

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

### Material Notes:

1 inch width and 36 inches long. Design/Construction: Side 1: Cured Fusible Silicone Rubber Substrate: 25% sinusoidal Fiberglass Side 2: Cured Fusible Silicone Rubber Interleave: Polyester Film Product Advantages: Flexibility: Silicone rubber resists damage due to vibration, frame movement under load and thermal expansion/contraction in use. Silicone based insulation remains flexible even after many years in extreme service conditions. Thermal Stability: Silicone based insulation remains flexible and resilient to thermal shock, even after years of cold motor starts as low as -54°C and running conditions up to 260°C. Electrical Insulation: Silicone based insulation has excellent dielectric strength, dielectric integrity over a wide temperature range, and resists arc tracking, current leakage, corona damage, and dielectric fatigue. Ozone and Weather Resistance: Unique silicone chemistry resists oxidative embrittlement, damage by ozone and other atmospheric chemicals, and seals against moisture, carbon dust, dirt, and debris. 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-A3020-R004-12-0020-0508-mm-Cured-Fusible-Silicone-Rubber-with-Sinusoidal-Fiberglass-Substrate-nbsp.php](http://www.lookpolymers.com/polymer_Arlon-A3020-R004-12-0020-0508-mm-Cured-Fusible-Silicone-Rubber-with-Sinusoidal-Fiberglass-Substrate-nbsp.php)

| Physical Properties | Metric       | English                   | Comments                             |
|---------------------|--------------|---------------------------|--------------------------------------|
| Density             | 1.20 g/cc    | 0.0434 lb/in <sup>3</sup> | Silicone Property; Arlon SQA-TMS-024 |
| Thickness           | 25.4 microns | 1.00 mil                  | Interleave                           |
|                     | 203 microns  | 8.00 mil                  | Substrate; Arlon SQA-TMS-003         |
|                     | 508 microns  | 20.0 mil                  | Overall; Arlon SQA-TMS-003           |

| Mechanical Properties | Metric     | English  | Comments  |
|-----------------------|------------|----------|---|
| Hardness, Shore A     | 55         | 55       | Silicone Property; ASTM D2240                       |
| Tensile Strength      | 7.93 MPa   | 1150 psi | Silicone Property; ASTM D412                        |
|                       | 23.1 MPa   | 3350 psi | Product Property; Arlon SQA-TMS-048                 |
| Elongation at Break   | 25 %       | 25 %     | Tape Property; Arlon SQA-TMS-048                    |
|                       | 430 %      | 430 %    | Silicone Property; ASTM D412                        |
| Tear Strength         | 15.8 kN/m  | 90.0 pli | Die B, Silicone Property; ASTM D624                 |
| Peel Strength         | 0.929 kN/m | 5.30 pli | Adhesion Strength, Tape Property; Arlon SQA-TMS-047 |

| Thermal Properties               | Metric   | English  | Comments |
|----------------------------------|----------|----------|----------|
| Maximum Service Temperature, Air | 232 °C   | 450 °F   |          |
| Minimum Service Temperature, Air | -56.7 °C | -70.0 °F |          |

| Electrical Properties | Metric     | English   | Comments                 |
|-----------------------|------------|-----------|--------------------------|
| Dielectric Strength   | 26.3 kV/mm | 668 kV/in | Tape Property; ASTM D149 |

| Processing Properties | Metric                             | English                            | Comments                 |
|-----------------------|------------------------------------|------------------------------------|--------------------------|
| Shelf Life            | 12.0 Month<br>@Temperature 21.1 °C | 12.0 Month<br>@Temperature 70.0 °F | From date of manufacture |

| Descriptive Properties | Value | Comments  |
|------------------------|-------|-----------|
| Color                  | Red   |           |
|                        | White | Substrate |

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China