

Arlon P29514R015 0.0165" (0.419 mm) Semi-Cured Silicone Rubber with Fiberglass Substrate

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

Material Notes:

Design/Construction: Side 1: Cured Self-Fusing Silicone RubberSubstrate: 7727 Style FiberglassProduct 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.**Appearance:** Red silicone rubber on fiberglass fabric.This data represents typical values for the production material. The data should not be used to write, or in place of, material specificationsInformation provided by Arlon, Silicone Technologies Division

Order this product through the following link:

http://www.lookpolymers.com/polymer_Arlon-P29514R015-00165-0419-mm-Semi-Cured-Silicone-Rubber-with-Fiberglass-Substrate.php

| Physical Properties | Metric | English | Comments |
|---------------------|-------------|---------------------------|--------------------------------------|
| Density | 1.18 g/cc | 0.0426 lb/in ³ | Silicone Property; Arlon SQA-TMS-024 |
| Thickness | 203 microns | 8.00 mil | Substrate; Arlon SQA-TMS-003 |
| | 216 microns | 8.50 mil | Side 1; Arlon SQA-TMS-003 |
| | 419 microns | 16.5 mil | Overall; Arlon SQA-TMS-003 |

| Mechanical Properties | Metric | English | Comments |
|-----------------------|-----------|----------|-------------------------------|
| Hardness, Shore A | 47 | 47 | Silicone Property; ASTM D2240 |
| Tensile Strength | 5.17 MPa | 750 psi | Silicone Property; ASTM D412 |
| Elongation at Break | 450 % | 450 % | Silicone Property; ASTM D412 |
| Peel Strength | 1.75 kN/m | 10.0 pli | Bond Strength; ASTM D624 |

| 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 | 31.5 kV/mm | 800 kV/in | ASTM D149 |

| Processing Properties | Metric | English | Comments |
|-----------------------|--|---|----------------------------|
| Cure Time | 120 min | 2.00 hour | Recommended Postcure Cycle |
| | @Temperature 204 °C | @Temperature 400 °F | |
| | 15.0 min | 0.250 hour | Recommended Cure Cycle |
| | @Pressure 0.345 MPa, Temperature 177 °C | @Pressure 50.0 psi, Temperature 350 °F | |
| Shelf Life | 3.00 Month | 3.00 Month | From date of manufacture |
| | @Temperature 23.9 °C | @Temperature 75.0 °F | |

| Descriptive Properties | Value | Comments |
|-------------------------------|-------|-------------------|
| Color | Red | |
| Total Product Weight (oz/yd2) | 20.2 | Arlon SQA-TMS-025 |

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