

Arlon T4020-R002 0.020" Cured, Fusible Silicone Rubber with Fiberglass Substrate

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

Material Notes:

0.5 inch wide, 20 mil thick, red, rectangular cross-section, fusible silicone tape. Design/Construction: Side 1: Cured Fusible Silicone Rubber Substrate: 15% Sinusoidal Fiberglass Side 2: Cured Fusible Silicone Rubber Interleave: 1 mil Polyester Film 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-T4020-R002-0020-Cured-Fusible-Silicone-Rubber-with-Fiberglass-Substrate.php

| Physical Properties | Metric | English | Comments |
|---------------------|-------------|---------------------------|--------------------------------------|
| Density | 1.20 g/cc | 0.0434 lb/in ³ | Silicone Property; Arlon SQA-TMS-024 |
| Thickness | 203 microns | 8.00 mil | Substrate; Arlon SQA-TMS-012 |
| | 508 microns | 20.0 mil | Overall thickness; Arlon SQA-TMS-012 |

| Mechanical Properties | Metric | English | Comments |
|-----------------------|------------|----------|--------------------------------------|
| Hardness, Shore A | 50 | 50 | Silicone Property; ASTM D2240 |
| Tensile Strength | 9.65 MPa | 1400 psi | Silicone Property; ASTM D412 |
| Elongation at Break | 20 % | 20 % | Tape Property; Arlon SQA-TMS-048 |
| | 702 % | 702 % | Silicone Property; ASTM D412 |
| Tear Strength | 23.0 kN/m | 131 pli | Die B; Silicone Property; ASTM D624 |
| Peel Strength | 0.929 kN/m | 5.30 pli | Adhesion Strength; Arlon SQA-TMS-047 |

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

| Electrical Properties | Metric | English | Comments |
|-----------------------|------------|-----------|-----------|
| Dielectric Strength | 22.4 kV/mm | 570 kV/in | ASTM D149 |

| Processing Properties | Metric | English | Comments |
|-----------------------|------------|------------|----------|
| | 12.0 Month | 12.0 Month | |

| Processing Properties | Metric | English | Comments |
|--------------------------|-----------------------|----------------------------------|----------|
| | @ Temperature 21.1 °C | @ Temperature 70.0 °F | |
| Descriptive Properties | Value | Comments | |
| Color | Naturally White | Substrate | |
| | Red | Product | |
| Tensile Strength (Lb/in) | 79 | Tape Property; Arlon SQA-TMS-048 | |

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