

Arlon R33991R015 0.015" (0.381 mm) Uncured Silicone Rubber with Fiberglass Substrate

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

Material Notes:

Design/Construction:Side 1: Uncured Silicone RubberSide 2: Uncured Silicone Rubber 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-R33991R015-0015-0381-mm-Uncured-Silicone-Rubber-with-Fiberglass-Substrate.php

| Physical Properties | Metric | English | Comments |
|---------------------|-------------------|-----------------|---|
| Thickness | 76.2 microns | 3.00 mil | Polyethylene, Interleave |
| | >= 88.9 microns | >= 3.50 mil | Side 1 |
| | >= 88.9 microns | >= 3.50 mil | Side 2 |
| | 203 microns | 8.00 mil | Prime Coated 7628 Fiberglass, Substrate |
| | 343 - 419 microns | 13.5 - 16.5 mil | Overall |

| Mechanical Properties | Metric | English | Comments |
|-----------------------|---------------|-------------|-------------------|
| Hardness, Shore A | 45 - 55 | 45 - 55 | Compound Property |
| Tensile Strength | >= 5.17 MPa | >= 750 psi | Compound Property |
| Elongation at Break | >= 250 % | >= 250 % | Compound Property |
| Peel Strength | >= 0.877 kN/m | >= 5.00 pli | Bond Strength |

| Thermal Properties | Metric | English | Comments |
|----------------------------------|----------|---------|---|
| Maximum Service Temperature, Air | 232 °C | 450 °F | |
| Minimum Service Temperature, Air | -73.3 °C | -100 °F | |
| Flammability Test | <= 3.0 | <= 3.0 | [in], Char Length; FTMS 191A; Method 5903 |
| | <= 12 | <= 12 | [sec], Flame Time; FTMS 191A; Method 5903 |
| | <= 20 | <= 20 | [sec], Glow Time; FTMS 191A; Method 5903 |

| Electrical Properties | Metric | English | Comments |
|-----------------------|--------|---------|----------|
|-----------------------|--------|---------|----------|

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

| Processing Properties | Metric | English | Comments |
|-----------------------|--|---|----------------------------|
| Cure Time | 120 min @Temperature 204 °C | 2.00 hour @Temperature 400 °F | Recommended Postcure Cycle |
| | 15.0 min @Pressure 0.345 MPa, Temperature 177 °C | 0.250 hour @Pressure 50.0 psi, Temperature 350 °F | Recommended Cure Cycle |
| Shelf Life | 6.00 Month @Temperature 23.9 °C | 6.00 Month @Temperature 75.0 °F | From date of manufacture |

| Descriptive Properties | Value | Comments |
|--|-------------|----------|
| Color | Red | |
| Total Product Weight (oz/yd ²) | 14.5 - 17.5 | |

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