

## Arlon 55578XC028 0.028" (0.711 mm) Uncured/Cured Silicone Rubber with Fiberglass Substrate

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

### Material Notes:

Design/Construction:Side 1: Cured Silicone RubberSide 2: Cured/Uncured Layers 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-55578XC028-0028-0711-mm-UncuredCured-Silicone-Rubber-with-Fiberglass-Substrate.php](http://www.lookpolymers.com/polymer_Arlon-55578XC028-0028-0711-mm-UncuredCured-Silicone-Rubber-with-Fiberglass-Substrate.php)

| Physical Properties | Metric            | English         | Comments                                     |
|---------------------|-------------------|-----------------|--|
| Thickness           | 12.7 microns      | 0.500 mil       | Side 1, Skim Coat                            |
|                     | 50.8 microns      | 2.00 mil        | Side 2, Cured                                |
|                     | 76.2 microns      | 3.00 mil        | Polyethylene, Interleave                     |
|                     | >= 203 microns    | >= 8.00 mil     | Side 2, Uncured                              |
|                     | 457 microns       | 18.0 mil        | Prime Coated 162 Style Fiberglass, Substrate |
|                     | 686 - 787 microns | 27.0 - 31.0 mil | Overall                                      |

| Mechanical Properties | Metric       | English     | Comments          |
|-----------------------|--------------|-------------|-------------------|
| Hardness, Shore A     | 40 - 50      | 40 - 50     | Compound Property |
| Tensile Strength      | >= 5.52 MPa  | >= 800 psi  | Compound Property |
| Elongation at Break   | >= 500 %     | >= 500 %    | Compound Property |
| Peel Strength         | >= 1.05 kN/m | >= 6.00 pli | Bond Strength     |

| Thermal Properties                | Metric   | English  | Comments           |
|-----------------------------------|----------|----------|--------------------|
| Maximum Service Temperature, Air  | 232 °C   | 450 °F   |                    |
| Minimum Service Temperature, Air  | -56.7 °C | -70.0 °F |                    |
| UL RTI, Electrical                | 220 °C   | 428 °F   | per UL card E54153 |
| UL RTI, Mechanical without Impact | 200 °C   | 392 °F   | per UL card E54153 |
| Flammability, UL94                | HB       | HB       | Compound Rated     |

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

| Dielectric Strength<br>Electrical Properties | $\geq 15.7$ kV/mm<br>Metric     | $\geq 400$ kV/in<br>English       | Comments                   |
|--|---------------------------------|-----------------------------------|----------------------------|
| <b>Processing Properties</b>                 | <b>Metric</b>                   | <b>English</b>                    | <b>Comments</b>            |
| Cure Time                                    | 15.0 min<br>@Temperature 177 °C | 0.250 hour<br>@Temperature 350 °F | Recommended Cure Cycle     |
|  | 120 min<br>@Temperature 204 °C  | 2.00 hour<br>@Temperature 400 °F  | Recommended Postcure Cycle |
| Shelf Life                                   | 6.00 Month                      | 6.00 Month                        | From date of manufacture   |

| Descriptive Properties                     | Value       | Comments                           |
|--|-------------|------------------------------------|
| Color                                      | Light Gray  |                                    |
| Total Product Weight (oz/yd <sup>2</sup> ) | 28.4 - 31.4 |                                    |
| Uncoated Fabric Break Strength             | 420 lb/in   | Fill Direction, Substrate Property |
|  | 700 lb/in   | Warp Direction, Substrate Property |

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