

## Arlon 55946C028 Silicone Rubber/Fiberglass Laminate

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

### Material Notes:

Side 1: cured silicone rubber; Substrate: 162 fiberglass; Side 2: uncured silicone rubber; Interleave: 3 mil polyethylene

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Arlon-55946C028-Silicone-RubberFiberglass-Laminate.php](http://www.lookpolymers.com/polymer_Arlon-55946C028-Silicone-RubberFiberglass-Laminate.php)

| Physical Properties | Metric      | English   | Comments                             |
|---------------------|-------------|-----------|--------------------------------------|
| Specific Gravity    | 1.32 g/cc   | 1.32 g/cc | silicone property; Arlon SQA-TMS-024 |
| Thickness           | 127 microns | 5.00 mil  | side 1; Arlon SQA-TMS-003            |
|                     | 165 microns | 6.50 mil  | side 2; Arlon SQA-TMS-003            |
|                     | 457 microns | 18.0 mil  | substrate; Arlon SQA-TMS-003         |
|                     | 749 microns | 29.5 mil  | overall; Arlon SQA-TMS-003           |

| Mechanical Properties      | Metric     | English  | Comments                            |
|----------------------------|------------|----------|-------------------------------------|
| Hardness, Shore A          | 55         | 55       | silicone property; ASTM D2240       |
| Tensile Strength, Ultimate | 7.93 MPa   | 1150 psi | silicone property; ASTM D412        |
| Elongation at Break        | 550 %      | 550 %    | silicone property; ASTM D412        |
| Adhesive Bond Strength     | 0.0483 MPa | 7.00 psi | ASTM D624                           |
| Tear Strength              | 21.0 kN/m  | 120 pli  | Die B; silicone property; 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 |          |
| Flammability, UL94               | V-0      | V-0      |          |

| Electrical Properties | Metric     | English   | Comments  |
|-----------------------|------------|-----------|-----------|
| Dielectric Strength   | 19.7 kV/mm | 500 kV/in | ASTM D149 |

| Processing Properties | Metric              | English             | Comments |
|-----------------------|---------------------|---------------------|----------|
| Cure Time             | 120 min             | 2.00 hour           |          |
|                       | @Temperature 204 °C | @Temperature 400 °F |          |

| Processing Properties | 15.0 min<br>Metric                         | 0.250 hour<br>English                     | Comments |
|-----------------------|--------------------------------------------|-------------------------------------------|----------|
|                       | @Pressure 0.345 MPa,<br>Temperature 121 °C | @Pressure 50.0 psi,<br>Temperature 250 °F |          |
| Shelf Life            | 6.00 Month                                 | 6.00 Month                                |          |
|                       | @Temperature 23.9 °C                       | @Temperature 75.0 °F                      |          |

| Descriptive Properties | Value | Comments |
|------------------------|-------|----------|
| Color                  | Brown |          |

## Contact Songhan Plastic Technology Co.,Ltd.

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