

## Arlon CP-427R Silicone Rubber

Category : Polymer , Thermoset , Rubber or Thermoset Elastomer (TSE) , Silicone , Silicone Rubber

### Material Notes:

bulk compound

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Arlon-CP-427R-Silicone-Rubber.php](http://www.lookpolymers.com/polymer_Arlon-CP-427R-Silicone-Rubber.php)

| Physical Properties | Metric    | English   | Comments          |
|---------------------|-----------|-----------|-------------------|
| Specific Gravity    | 1.35 g/cc | 1.35 g/cc | Arlon SQA-TMS-024 |

| Mechanical Properties      | Metric    | English  | Comments                            |
|----------------------------|-----------|----------|-------------------------------------|
| Hardness, Shore A          | 60        | 60       | ASTM D2240                          |
| Tensile Strength, Ultimate | 5.52 MPa  | 800 psi  | ASTM D412                           |
| Elongation at Break        | 225 %     | 225 %    | ASTM D412                           |
| Tear Strength              | 15.8 kN/m | 90.0 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 |          |
| UL RTI, Electrical                | 220 °C   | 428 °F   |          |
| UL RTI, Mechanical without Impact | 220 °C   | 428 °F   |          |

| Electrical Properties | Metric     | English   | Comments  |
|-----------------------|------------|-----------|-----------|
| Dielectric Strength   | 15.7 kV/mm | 400 kV/in | ASTM D149 |

| Processing Properties | Metric                                     | English                                   | Comments |
|-----------------------|--------------------------------------------|-------------------------------------------|----------|
| Cure Time             | 120 min                                    | 2.00 hour                                 |          |
|                       | @Temperature 204 °C                        | @Temperature 400 °F                       |          |
|                       | 15.0 min                                   | 0.250 hour                                |          |
|                       | @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                  | Red   |          |

## Contact Songhan Plastic Technology Co.,Ltd.

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