

Arlon 56866R026 0.028" Cured/Uncured Silicone Rubber with Fiberglass Substrate

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

Material Notes:

Design/Construction:Side 1: Cured Silicone RubberSubstrate: Style 1564 FiberglassSide 2: Uncured Silicone RubberInterleave: 3 mil LDPE
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-56866R026-0028-CuredUncured-Silicone-Rubber-with-Fiberglass-Substrate.php

| Physical Properties | Metric | English | Comments |
|---------------------|-------------|---------------------------|--------------------------------------|
| Density | 1.35 g/cc | 0.0488 lb/in ³ | Silicone Property; Arlon SQA-TMS-024 |
| Thickness | 152 microns | 6.00 mil | Side 1; Arlon SQA-TMS-003 |
| | 152 microns | 6.00 mil | Side 2; Arlon SQA-TMS-003 |
| | 406 microns | 16.0 mil | Substrate; Arlon SQA-TMS-003 |
| | 711 microns | 28.0 mil | Overall Thickness; Arlon SQA-TMS-003 |

| Mechanical Properties | Metric | English | Comments |
|-----------------------|-----------|----------|---|
| Hardness, Shore A | 60 | 60 | Silicone Property; ASTM D2240 |
| Tensile Strength | 4.83 MPa | 700 psi | Silicone Property; ASTM D412 |
| Elongation at Break | 200 % | 200 % | Silicone Property; ASTM D412 |
| Peel Strength | 1.16 kN/m | 6.60 pli | Bond Strength (S2 to S2); Arlon SQA-TMS-011 |

| Thermal Properties | Metric | English | Comments |
|------------------------------------|----------|----------|----------|
| Maximum Service Temperature, Inert | 232 °C | 450 °F | |
| Minimum Service Temperature, Air | -56.7 °C | -70.0 °F | |
| UL RTI, Electrical | 150 °C | 302 °F | E54153 |
| UL RTI, Mechanical without Impact | 150 °C | 302 °F | E54153 |

| 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 | Recommended Post Cure Cycle |
| | @Temperature 204 °C | @Temperature 400 °F | |
| | 15.0 min | 0.250 hour | Recommended Cure Cycle |
| | @Pressure 0.345 MPa, Temperature 121 °C | @Pressure 50.0 psi, 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 | |
| Total Product Weight (oz/yd2) | 27.6 | Arlon SQA-TMS-025 |

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