

Arlon 55271R028 0.028" (0.711 mm) Uncured Silicone Rubber with Fiberglass Substrate

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

Material Notes:

Design/Construction: Interleave 1: Polyethylene Side 1: Cured Silicone Rubber Substrate: Style 162 Fiberglass Side 2: Cured Silicone Rubber Interleave 2: Polyethylene Product Use: Flexible heater insulation Appearance: Red silicone gum on fiberglass fabric 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-55271R028-0028-0711-mm-Uncured-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 | 76.2 microns | 3.00 mil | Interleave 1 |
| | 76.2 microns | 3.00 mil | Interleave 2 |
| | 127 microns | 5.00 mil | Side 1; Arlon SQA-TMS-003 |
| | 127 microns | 5.00 mil | Side 2; Arlon SQA-TMS-003 |
| | 457 microns | 18.0 mil | Substrate; Arlon SQA-TMS-003 |
| | 711 microns | 28.0 mil | Overall; Arlon SQA-TMS-003 |

| Mechanical Properties | Metric | English | Comments |
|-----------------------|-----------|----------|--|
| Hardness, Shore A | 60 | 60 | Silicone Property; ASTM D2240 |
| Tensile Strength | 5.52 MPa | 800 psi | Silicone Property; ASTM D412 |
| Elongation at Break | 225 % | 225 % | Silicone Property; ASTM D412 |
| Tear Strength | 15.8 kN/m | 90.0 pli | [ppiw], Die B, Silicone Property; ASTM D624 |
| Peel Strength | 1.60 kN/m | 9.10 pli | (S1 to S2), Bond Strength; Arlon SQA-TMS-011 |

| 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 | E54153 |

| UL RTI Mechanical without Impact Thermal Properties | 220 °C Metric | 428 °F English | E54153 Comments |
|--|------------------|-------------------|--------------------|
|--|------------------|-------------------|--------------------|

| Electrical Properties | Metric | English | Comments |
|-----------------------|--------|---------|----------|
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|---------------------|------------|-----------|-----------|
| Dielectric Strength | 30.8 kV/mm | 782 kV/in | ASTM D149 |
|---------------------|------------|-----------|-----------|

| Processing Properties | Metric | English | Comments |
|-----------------------|--------|---------|----------|
|-----------------------|--------|---------|----------|

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|-----------|---------------------|---------------------|----------------------------|
| Cure Time | 120 min | 2.00 hour | Recommended Postcure Cycle |
| | @Temperature 204 °C | @Temperature 400 °F | |

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|--|--|---|------------------------|
| | 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 | From date of manufacture |
| | @Temperature 21.1 °C | @Temperature 70.0 °F | |

| Descriptive Properties | Value | Comments |
|------------------------|-------|----------|
|------------------------|-------|----------|

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| Color | Red | |
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| | Red | Substrate |
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|-------------------------------|------|-------------------|
| Total Product Weight (oz/yd2) | 31.5 | Arlon SQA-TMS-025 |
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Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China