

Arlon R3792-920-10R##-P0 Silicone Rubber

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

Material Notes:

This self-fusible silicone tape is specially formulated to yield improved flexibility, elongation and elastic recovery at low operating temperature (-70°C to -100°C) where standard fusible silicone tapes become highly crystalline and lose their desirable elastomeric properties. Interleave: 3 mil PE; Rubber: Cured self fusing silicone.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Arlon-R3792-920-10R-P0-Silicone-Rubber.php

| Physical Properties | Metric | English | Comments |
|---------------------|-------------|-----------|----------------------------|
| Specific Gravity | 1.20 g/cc | 1.20 g/cc | Arlon SQA-TMS-024 |
| Water Absorption | 0.40 % | 0.40 % | MIL-I-46852C |
| Thickness | 508 microns | 20.0 mil | overall; Arlon SQA-TMS-003 |

| Mechanical Properties | Metric | English | Comments |
|----------------------------|------------|----------|--------------|
| Hardness, Shore A | 50 | 50 | ASTM D2240 |
| Tensile Strength, Ultimate | 6.55 MPa | 950 psi | ASTM D412 |
| Elongation at Break | 425 % | 425 % | ASTM D412 |
| Adhesive Bond Strength | 0.0152 MPa | 2.20 psi | MIL-I-46852C |

| Thermal Properties | Metric | English | Comments |
|----------------------------------|----------|---------|-------------------|
| Maximum Service Temperature, Air | 93.3 °C | 200 °F | |
| Minimum Service Temperature, Air | -73.3 °C | -100 °F | |
| Glass Transition Temp, Tg | -116 °C | -177 °F | Arlon SQA-TMS-055 |

| Electrical Properties | Metric | English | Comments |
|-----------------------|------------|-----------|-----------|
| Dielectric Strength | 27.6 kV/mm | 700 kV/in | ASTM D149 |

| Processing Properties | Metric | English | Comments |
|-----------------------|------------------------------------|------------------------------------|----------|
| Shelf Life | 12.0 Month @Temperature 23.9 °C | 12.0 Month @Temperature 75.0 °F | |

| Descriptive Properties | Value | Comments |
|------------------------|-------|----------|
| Color | Red | |

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|------------------------|-------|----------|
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