

Arlon T3020-R004 0.020" (0.508 mm) Thick, 1" wide, Cured Fusible Silicone Rubber with Sinusoidal Fiberglass Substrate

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

Material Notes:

Design/Construction: Side 1: Cured Fusible Silicone Rubber Substrate: 25% Sinusoidal Fiberglass Side 2: Cured Fusible Silicone Rubber
Interleave: Polyester Film Arlon MOX-Tape® Fiberglass Reinforced Tape: These self-fusing silicone rubber tapes incorporate a sinusoidal fiberglass fabric that gives a controlled elongation and increased tear resistance. This reinforcement provides excellent mechanical characteristics while allowing the tape to conform to irregular shapes. **Performance Advantages:** Resists moisture, oxygen, and ozone to assure continuous high insulation values. Conforms smoothly when wrapped around complex forms. Bonds to itself at room temperature within 24 hours. Remains non-tacky to the touch and does not adhere to other surfaces, or substrates. Insulates with single wrap, thereby reducing labor time and cost. Dampens vibration and resists heat and mechanical shock as well as corona. Inherently flame resistant and when burned forms a non-conductive ash. SA & SB MOX-Tapes® provide a uniform thickness even around sharp edges. Fiberglass fabric, encapsulated inside the silicone rubber, prevents wicking and maintains high insulation resistance under high humidity conditions. These controlled stretch tapes provide a uniform insulation barrier. All tapes are protected by a special interleaved liner. **Applications:** **Mechanical:** Protection of coils from vibration. Vibration fixture, anti-scratch, and clamping pads. Harness wrapping and wire bundling, including for high temperature applications. Applied to rollers for protection and traction. Plant maintenance. Superior, heavy duty repair tape for emergency insulating barrier. **Electrical:** Insulation of field armature and interpole coils in large motors. Insulation for splicing and terminating of wire and cable. Insulating and sealing electrical connections. Insulating coil leads and bus bar connections. Electromagnetic coil insulation. Motor connections. Overwrapping of deteriorated insulation in reclaimed motors. **Environmental:** On-board aviation and space applications. Underground cable splices. Insulating heated transfer lines. Insulating in radioactive environments. Masking agent utilized in manufacturing processes and powder coatings. Insulating, protecting, and sealing rigging hardware and power systems in marine applications. 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-T3020-R004-0020-0508-mm-Thick-1-wide-Cured-Fusible-Silicone-Rubber-with-Sinusoidal-Fiberglass-Substrate.php

Physical Properties	Metric	English	Comments
Density	1.20 g/cc	0.0434 lb/in ³	Silicone Property; Arlon SQA-TMS-024
Thickness	25.4 microns	1.00 mil	Interleave
	203 microns	8.00 mil	Substrate; Arlon SQA-TMS-012
	508 microns	20.0 mil	Overall; Arlon SQA-TMS-012
	25400 microns	1000 mil	Width; Arlon SQA-TMS-012

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	50	50	Silicone Property; ASTM D2240

Tensile Strength Mechanical Properties	8.260 MPa Metric	1198 psi English	Silicone Property; ASTM D412 Comments
	20.24 MPa	2935 psi	Product Property; Arlon SQA-TMS-048
Elongation at Break	25 %	25 %	Tape Property; Arlon SQA-TMS-048
	580 %	580 %	Silicone Property; ASTM D412
Tear Strength	21.7 kN/m	124 pli	Die B, Silicone Property; ASTM D624
Peel Strength	1.44 kN/m	8.20 pli	Adhesion Strength, Tape Property; Arlon SQA-TMS-047

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	232 °C	450 °F	
Minimum Service Temperature, Air	-56.7 °C	-70.0 °F	

Electrical Properties	Metric	English	Comments
Dielectric Strength	21.9 kV/mm	555 kV/in	Tape Property; ASTM D149

Processing Properties	Metric	English	Comments
Shelf Life	12.0 Month @Temperature 21.1 °C	12.0 Month @Temperature 70.0 °F	From date of manufacture

Descriptive Properties	Value	Comments
Color	Red	
	White	Substrate

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