

Arlon R3781-920-##R##-P0 Silicone Rubber

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

Material Notes:

This 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-R3781-920-R-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	6.89 MPa	1000 psi	ASTM D412
Elongation at Break	380 %	380 %	ASTM D412
Adhesive Bond Strength	0.0138 MPa	2.00 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	-117 °C	-179 °F	Arlon SQA-TMS-055

Electrical Properties	Metric	English	Comments
Dielectric Strength	23.6 kV/mm	600 kV/in	ASTM D149

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

Descriptive Properties	Value	Comments
Color	Red	

Descriptive Properties	Value	Comments
Heat of Crystallization (J/g)	47	DSC

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