

Arlon 49283R040 Silicone Rubber/Fiberglass Laminate

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

Material Notes:

Interleave: 3 mil polyethylene; Side 1: cured silicone rubber; Substrate: 1681 Fiberglass; Side 2: cured silicone rubber

Order this product through the following link:

http://www.lookpolymers.com/polymer_Arlon-49283R040-Silicone-RubberFiberglass-Laminate.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.25 g/cc	1.25 g/cc	silicone property; Arlon SQA-TMS-024
Thickness	140 microns	5.50 mil	substrate; Arlon SQA-TMS-003
	419 microns	16.5 mil	side 1 silicone; Arlon SQA-TMS-003
	457 microns	18.0 mil	side 2 silicone; Arlon SQA-TMS-003
	1020 microns	40.0 mil	overall; Arlon SQA-TMS-003

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	50	50	silicone property; ASTM D2240
Tensile Strength, Ultimate	9.03 MPa	1310 psi	silicone property; ASTM D412
Elongation at Break	338 %	338 %	silicone property; ASTM D412
Tear Strength	20.9 kN/m	119 pli	silicone property; ASTM D624
Compression Set	49 %	49 %	Arlon SQA-TMS-017

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.8467 W/m-K	5.876 BTU-in/hr-ft ² -°F	Resistance of 1.2E-3 m ² K/W; Arlon SQA-TMS-054
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	20.2 kV/mm	514 kV/in	ASTM D149

Processing Properties	Metric	English	Comments
Shelf Life	60.0 Month	60.0 Month	
	@Temperature 23.9 °C	@Temperature 75.0 °F	

Processing Properties	Metric	English	Comments
Descriptive Properties		Value	Comments
Color		Red	

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