

Arlon 54B12R006 Silicone Rubber/Fiberglass Laminate

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

Material Notes:

Cured silicone rubber with a fiberglass substrate.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Arlon-54B12R006-Silicone-RubberFiberglass-Laminate.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.30 g/cc	1.30 g/cc	Silicone Property; Arlon SQA-TMS-024
Thickness	50.8 microns	2.00 mil	silicone; Arlon SQA-TMS-003
	102 microns	4.00 mil	substrate; Arlon SQA-TMS-003
	152 microns	6.00 mil	overall; Arlon SQA-TMS-003

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	60	60	Silicone Property; ASTM D2240
Tensile Strength, Ultimate	5.72 MPa	830 psi	Silicone Property; ASTM D412
Elongation at Break	150 %	150 %	Silicone Property; ASTM D412
Tear Strength	9.64 kN/m	55.0 pli	Silicone, Die B; ASTM D624

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	59.65 kV/mm	1515 kV/in	ASTM D149

Processing Properties	Metric	English	Comments
Cure Time	120 min	2.00 hour	
	@Temperature 204 °C	@Temperature 400 °F	
Shelf Life	60.0 Month	60.0 Month	
	@Temperature 23.9 °C	@Temperature 75.0 °F	

Descriptive Properties	Value	Comments
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Descriptive Properties	Value	Comments
Color	Red	App.F, P.1, S.Aii
Flame and Glow Resistance (seconds)	1	FAR 25.853 App.F, P.1, S.Aii

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