

Arlon R36319R028 Silicone Rubber/Fiberglass Laminate

Category : Polymer , Thermoset , Rubber or Thermoset Elastomer (TSE) , Silicone , Silicone Rubber , Silicone, Molded, Glass Fiber Filled

Material Notes:

Interleave: 3 mil PE; Layer 2: uncured silicone rubber; Layer 1: Cured silicone rubber; Substrate: 162 fiberglass

Order this product through the following link:

http://www.lookpolymers.com/polymer_Arlon-R36319R028-Silicone-RubberFiberglass-Laminate.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.38 g/cc	1.38 g/cc	Arlon SQA-TMS-024
Thickness	127 microns	5.00 mil	layer 1; Arlon SQA-TMS-003
	152 microns	6.00 mil	layer 2; Arlon SQA-TMS-003
	432 microns	17.0 mil	substrate; Arlon SQA-TMS-003
	711 microns	28.0 mil	overall; Arlon SQA-TMS-003
Outgassing - Total Mass Loss	0.34 %	0.34 %	post cured; ASTM E 595
	1.07 %	1.07 %	no post cure; ASTM E 595

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	48	48	silicone property; ASTM D2240
Tensile Strength, Ultimate	5.86 MPa	850 psi	ASTM D412
Elongation at Break	450 %	450 %	silicone property; ASTM D412
Adhesive Bond Strength	0.103 MPa	15.0 psi	Arlon SQA-TMS-047
Tear Strength	12.3 kN/m	70.0 pli	Die B; silicone property; 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	14.4 kV/mm	365 kV/in	ASTM D149

Processing Properties	Metric	English	Comments
Cure Time	120 min	2.00 hour	

Processing Properties	@Temperature 218 °C Metric	@Temperature 425 °F English	Comments
	15.0 min	0.250 hour	
	@Pressure 0.345 MPa, Temperature 121 °C	@Pressure 50.0 psi, Temperature 250 °F	
Shelf Life	6.00 Month	6.00 Month	
	@Temperature 23.9 °C	@Temperature 75.0 °F	

Descriptive Properties	Value	Comments
Color	Red	
Outgassing - CVCN (%) ASTM E595	0.1	post cured
	0.28	no post cure

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