

Arlon 51228R025 Silicone Rubber/Fiberglass Laminate

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

Material Notes:

Interleave: 1.5 mil PE; Side 1, layer 2: uncured silicone rubber; Side 1, layer 1: Cured silicone rubber; Substrate: 7628 fiberglass; Side 2: cured silicone rubber

Order this product through the following link:

http://www.lookpolymers.com/polymer_Arlon-51228R025-Silicone-RubberFiberglass-Laminate.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.24 g/cc	1.24 g/cc	silicone property; Arlon SQA-TMS-024
Thickness	19.0 microns	0.750 mil	side 1/cured; Arlon SQA-TMS-003
	19.0 microns	0.750 mil	side 2; Arlon SQA-TMS-003
	203 microns	8.00 mil	fiberglass; Arlon SQA-TMS-003
	394 microns	15.5 mil	side1/uncured; Arlon SQA-TMS-003
	635 microns	25.0 mil	overall; Arlon SQA-TMS-003

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	50	50	silicone property; ASTM D2240
Tensile Strength, Ultimate	6.07 MPa	880 psi	silicone property; ASTM D412
Elongation at Break	470 %	470 %	silicone property; ASTM D412
Adhesive Bond Strength	0.0758 MPa	11.0 psi	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	23.6 kV/mm	600 kV/in	ASTM D149

Processing Properties	Metric	English	Comments
Cure Time	120 - 180 min	2.00 - 3.00 hour	
	@Temperature 204 °C	@Temperature 400 °F	

Processing Properties	15.0 min Metric	0.250 hour English	Comments
	@Pressure 0.345 MPa, Temperature 177 °C	@Pressure 50.0 psi, Temperature 350 °F	
Shelf Life	6.00 Month @Temperature 23.9 °C	6.00 Month @Temperature 75.0 °F	

Descriptive Properties	Value	Comments
Color	Red	

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