

Arlon 55146R028 Silicone Rubber/Fiberglass Laminate

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

Material Notes:

Interleave: 3 mil PE; Side 2: uncured silicone rubber; Substrate: 162 fiberglass; Side 1: cured silicone rubber

Order this product through the following link:

http://www.lookpolymers.com/polymer_Arlon-55146R028-Silicone-RubberFiberglass-Laminate.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.35 g/cc	1.35 g/cc	silicone property; Arlon SQA-TMS-024
Thickness	102 microns	4.00 mil	side 1; Arlon SQA-TMS-003
	165 microns	6.50 mil	side 2; Arlon SQA-TMS-003
	483 microns	19.0 mil	substrate; Arlon SQA-TMS-003
	749 microns	29.5 mil	overall; Arlon SQA-TMS-003

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	60	60	silicone property; ASTM D2240
Tensile Strength, Ultimate	5.52 MPa	800 psi	silicone property; ASTM D412
Elongation at Break	225 %	225 %	silicone property; ASTM D412
Adhesive Bond Strength	0.0490 MPa	7.10 psi	Arlon SQA-TMS-011
Tear Strength	15.8 kN/m	90.0 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	
UL RTI, Electrical	200 °C	392 °F	
UL RTI, Mechanical without Impact	200 °C	392 °F	

Electrical Properties	Metric	English	Comments
Dielectric Strength	23.2 kV/mm	590 kV/in	ASTM D149

Processing Properties	Metric	English	Comments
	120 min	2.00 hour	

Cure Time Processing Properties	Metric @ Temperature 204 °C	English @ Temperature 400 °F	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	

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