

Arlon 55279R031 0.031" (0.787 mm) Uncured/Cured Silicone Rubber with Fiberglass Substrate

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

Material Notes:

Design/Construction: Interleave: Polyethylene Layer 2: Uncured Silicone Rubber Layer 1: Cured Silicone Rubber Substrate: Style 162

Fiberglass Product Use: Flexible heater insulationAppearance: Red silicone gum and rubber on fiberglass fabricThis data represents typical values for the production material. The data should not be used to write, or in place of, material specifications.Information provided by Arlon, Silicone Technologies Division

Order this product through the following link:
http://www.lookpolymers.com/polymer_Arlon-55279R031-0031-0787-mm-UncuredCured-Silicone-Rubber-with-Fiberglass-Substrate.php

Physical Properties	Metric	English	Comments
Density	1.35 g/cc	0.0488 lb/in ³	Layer 1, Silicone Property; Arlon SQA-TMS-024
	1.35 g/cc	0.0488 lb/in ³	Layer 2, Silicone Property; Arlon SQA-TMS-024
Thickness	63.5 microns	2.50 mil	Interleave
	165 microns	6.50 mil	Layer 1; Arlon SQA-TMS-003
	216 microns	8.50 mil	Layer 2; Arlon SQA-TMS-003
	406 microns	16.0 mil	Substrate; Arlon SQA-TMS-003
	787 microns	31.0 mil	Overall; Arlon SQA-TMS-003

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	60	60	Layer 1, Silicone Property; ASTM D2240
	60	60	Layer 2, Silicone Property; ASTM D2240
Tensile Strength	5.52 MPa	800 psi	Layer 1, Silicone Property; ASTM D412
	5.52 MPa	800 psi	Layer 2, Silicone Property; ASTM D412
Elongation at Break	225 %	225 %	Layer 1, Silicone Property; ASTM D412
	225 %	225 %	Layer 2, Silicone Property; ASTM D412
Tear Strength	15.8 kN/m	90.0 pli	[ppiw], Layer 1, Silicone Property; ASTM D624
	15.8 kN/m	90.0 pli	[ppiw], Layer 2, Silicone Property; ASTM D624

Mechanical Properties	Metric	English	Comments
Peel Strength	2.19 kN/m	12.8 pli	(S1 to S1), Bond Strength; Arlon SQA-TMS-011

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	220 °C	428 °F	E54153
UL RTI, Mechanical without Impact	220 °C	428 °F	E54153

Electrical Properties	Metric	English	Comments
Dielectric Strength	19.7 kV/mm	500 kV/in	ASTM D149

Processing Properties	Metric	English	Comments
Cure Time	120 min	2.00 hour	Recommended Postcure Cycle
	@Temperature 204 °C	@Temperature 400 °F	
	15.0 min	0.250 hour	Recommended Cure Cycle
	@Pressure 0.345 MPa, Temperature 121 °C	@Pressure 50.0 psi, Temperature 250 °F	
Shelf Life	6.00 Month	6.00 Month	From date of manufacture
	@Temperature 21.1 °C	@Temperature 70.0 °F	

Descriptive Properties	Value	Comments
Color	Red	
Total Product Weight (oz/yd2)	32.5	Arlon SQA-TMS-025

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