

Arlon 0.010" (0.254 mm) Flexible Heater Silicone with Fiberglass Substrate (49586R010)

Category : Polymer , Thermoset , Filled/Reinforced Thermoset , Silicone

Material Notes:

Cured silicone rubber with a minimum thickness of 0.0015 in. (0.038 mm)/ 0.0055 in. (0.14 mm) Prime Coated 1681 Fiberglass/Uncured silicone rubber with a minimum thickness of 0.003 in. (0.08 mm); 0.003 in. (0.08 mm) polyethylene interleave; overall thickness 0.010 in \pm 0.001 (0.25 mm \pm 0.025). The shelf life is defined as the duration of time for which the product will meet the physical requirements outlined below. It does not guarantee the product's usefulness in all applications. Color: Red. Weight: 403.5 g/m² \pm 33.91 (11.9 oz./yd.² \pm 1.0). Shelf Life: 6 months from manufacture at 23.8°C (75°F). Cure Time: 0.25 hours. Post Cure: 204°C (400°F), for 2 hours. Information provided by the manufacturer, Arlon Silicone Technologies Division.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Arlon-0010-0254-mm-Flexible-Heater-Silicone-with-Fiberglass-Substrate-49586R010.php

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	40 - 50	40 - 50	
Tensile Strength, Ultimate	\geq 5.50 MPa	\geq 798 psi	
Elongation at Yield	\geq 500 %	\geq 500 %	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	200 °C	392 °F	per UL Card E54153
	232 °C	450 °F	
Minimum Service Temperature, Air	-56.6 °C	-69.9 °F	
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
Dielectric Strength	\geq 15.75 kV/mm	\geq 400.0 kV/in	

Processing Properties	Metric	English	Comments
Processing Temperature	176.6 °C	349.9 °F	curing temp., at 0.345 MPa (50 psi)

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