

Arlon 0.020" (0.508 mm) Flexible Heater Silicone with Fiberglass Substrate (51576R020)

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

Material Notes:

Cured silicone rubber with a minimum thickness of 0.003 in. (0.08 mm)/ 0.008 in. (0.2 mm) Prime Coated 7628 Fiberglass/Uncured silicone rubber with a minimum thickness of 0.009 in. (0.2 mm); 0.003 in. (0.08 mm) polyethylene interleave; overall thickness 0.020 in \pm 0.0015 (0.51 mm \pm 0.038). 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: 735.8 g/m² \pm 50.9 (21.7 oz./yd.² \pm 1.5). Shelf Life: 6 months from date of 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-0020-0508-mm-Flexible-Heater-Silicone-with-Fiberglass-Substrate-51576R020.php

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	40 - 50	40 - 50	
Tensile Strength, Ultimate	5.58 - 6.82 MPa	809 - 989 psi	
Elongation at Break	540 - 660 %	540 - 660 %	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	200 °C	392 °F	Mechanical per UL Card E54153
	232 °C	450 °F	
Minimum Service Temperature, Air	-56.6 °C	-69.9 °F	
UL RTI, Electrical	220 °C	428 °F	per UL Card E54153
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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