

Arlon 0.015" (0.381 mm) Thermabond® Uncured Silicone (99510N015)

Category : Polymer , Thermoset , Rubber or Thermoset Elastomer (TSE) , Silicone , Silicone Elastomer, for Thermal Management

Material Notes:

0.015 in., ±0.001 (0.38 mm, ±0.038) uncured silicone on 0.003 in. (0.08 mm) nominal PTFE coated fiberglass; 0.001 in. (0.03 mm) FEP interleave; overall thickness 0.015 in ±0.001(0.38 mm ± 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: Natural. Weight: 576.4 g/m² ± 57.6 (17.0 oz./yd.² ± 1.7). Shelf Life: 6 months . Thermal Impendence is 1.3°C/W, ±0.1 °C/W.Information provided by the manufacturer, Arlon Silicone Technologies Division.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Arlon-0015-0381-mm-Thermabond-Uncured-Silicone-99510N015.php

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	>= 50	>= 50	
Tensile Strength, Ultimate	4.68 - 5.72 MPa	679 - 830 psi	
Elongation at Break	250 - 300 %	250 - 300 %	
Shear Modulus	<= 0.000700 GPa	<= 0.102 ksi	
Adhesive Bond Strength	>= 2.80 MPa	>= 406 psi	lap shear strength

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.280 - 0.360 W/m-K	1.94 - 2.50 BTU-in/hr-ft ² -°F	
Maximum Service Temperature, Air	232 °C	450 °F	
Minimum Service Temperature, Air	-73.3 °C	-99.9 °F	

Electrical Properties	Metric	English	Comments
Dielectric Strength	14.0 kV/mm	356 kV/in	5.25 kV minimum

Processing Properties	Metric	English	Comments
Processing Temperature	176.6 °C	349.9 °F	curing temp.

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