

## Arlon Thermabond® T-20 NP (99770W015) 0.015" (0.381 mm) Uncured Silicone Rubber with PTFE Coated Fiberglass Carrier

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

### Material Notes:

Description: 15 mil Primerless Thermabond®. T-20 NP. Thermally conductive, electrically insulating electronic adhesive. Bonds with primer.Design/Construction:Liner: FEPPProduct: Uncured Silicone Rubber Carrier: PTFE Coated FiberglassProduct Use: Thermally Conductive, electrically insulating electronic adhesive. Bonds with primer.Appearance: White, high viscosity gum.This 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-Thermabond-T-20-NP-99770W015-0015-0381-mm-Uncured-Silicone-Rubber-with-PTFE-Coated-Fiberglass-Carrier.php](http://www.lookpolymers.com/polymer_Arlon-Thermabond-T-20-NP-99770W015-0015-0381-mm-Uncured-Silicone-Rubber-with-PTFE-Coated-Fiberglass-Carrier.php)

Physical Properties	Metric	English	Comments
Density	1.60 g/cc	0.0578 lb/in <sup>3</sup>	Silicone Property; Arlon SQA-TMS-024
Thickness	25.4 microns	1.00 mil	Liner
	76.2 microns	3.00 mil	Carrier
	381 microns	15.0 mil	Overall; Arlon SQA-TMS-003

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	88	88	Silicone Property; ASTM D2240
Tensile Strength	3.86 MPa	560 psi	Silicone Property; ASTM D412
Elongation at Break	23 %	23 %	Silicone Property; ASTM D412
Modulus of Elasticity	0.0441 GPa	6.40 ksi	Silicone Property; Arlon-SAQ-TMS-008
Poissons Ratio	0.50	0.50	Approximately, Silicone Property
Shear Modulus	0.000448 GPa	0.0650 ksi	ASTM D1002
Shear Strength	2.28 MPa	330 psi	Lap Shear Strength; ASTM D1002

Thermal Properties	Metric	English	Comments
CTE, linear	79.0 µm/m-°C	43.9 µin/in-°F	ASTM E 831
Specific Heat Capacity	1.00 J/g-°C	0.239 BTU/lb-°F	Silicone Property; E1461-01
Thermal Conductivity	0.0600 W/m-K	0.416 BTU-in/hr-ft <sup>2</sup> -°F	Product Property; ASTM E 1530

Thermal Properties	0.800 W/m-K Metric	9.55 BTU-in/hr-ft <sup>2</sup> -°F English	Silicone Property; ASTM E 1530 Comments
Maximum Service Temperature, Air	204 °C	400 °F	
Minimum Service Temperature, Air	-73.3 °C	-100 °F	
Glass Transition Temp, Tg	<= -100 °C	<= -148 °F	Silicone Property; ASTM D3418

Electrical Properties	Metric	English	Comments
Dielectric Constant	3.5	3.5	D <sub>k</sub> , Silicone Property; IPC TM 650-2.5.5.3
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dielectric Strength	42.9 kV/mm	1090 kV/in	ASTM D149
Dissipation Factor	0.0030	0.0030	D <sub>f</sub> , Silicone Property; IPC TM 650-2.5.5.3
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	

Processing Properties	Metric	English	Comments
Cure Time	15.0 min	0.250 hour	Recommended Cure Cycle
	@Temperature 141 °C	@Temperature 285 °F	
Shelf Life	6.00 Month	6.00 Month	From date of manufacture
	@Temperature 4.44 - 10.0 °C	@Temperature 40.0 - 50.0 °F	

Descriptive Properties	Value	Comments
Color	White	
Total Product Weight (g/m <sup>2</sup> )	610	Arlon SQA-TMS-025

## Contact Songhan Plastic Technology Co.,Ltd.

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