

Arlon Thermabond® T20 (99710W015) 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 thick Thermabond® T20 electrically insulating electronic adhesive. Design/Construction: Liner: FEP Product: Uncured Silicone Rubber Carrier: PTFE Coated Fiberglass Recommended Primers: Dow Corning S2260 or Lord Chemical Chemlock® 607 Product 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-T20-99710W015-0015-0381-mm-Uncured-Silicone-Rubber-with-PTFE-Coated-Fiberglass-Carrier.php

Physical Properties	Metric	English	Comments
Density	1.30 g/cc	0.0470 lb/in ³	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	83	83	Silicone Property; ASTM D2240
Tensile Strength	4.48 MPa	650 psi	Silicone Property; ASTM D412
Elongation at Break	25 %	25 %	Silicone Property; ASTM D412
Shear Modulus	0.000689 GPa	0.0100 ksi	ASTM D1002

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.800 W/m-K	5.55 BTU-in/hr-ft ² -°F	Silicone Property; ASTM E 1530
	1.33 W/m-K	9.23 BTU-in/hr-ft ² -°F	Product Property; ASTM E 1530
Maximum Service Temperature, Air	204 °C	400 °F	
Minimum Service Temperature, Air	-73.3 °C	-100 °F	
Glass Transition Temp, Tg	-116 °C	-177 °F	Silicone Property; ASTM D1356

Electrical Properties	Metric	English	Comments
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Dielectric Strength Electrical Properties	39.4 kV/mm Metric	1000 kV/in English	ASTM D149 Comments
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Processing Properties	Metric	English	Comments
Cure Time	15.0 min @Temperature 141 °C	0.250 hour @Temperature 285 °F	Recommended Cure Cycle
Shelf Life	6.00 Month @Temperature 4.44 - 10.0 °C	6.00 Month @Temperature 40.0 - 50.0 °F	From date of manufacture

Descriptive Properties	Value	Comments
Color	White	
Total Product Weight (g/m2)	610	Arlon SQA-TMS-025

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