

Arlon Thermabond® T20 (99710W008) 0.008" (0.203 mm) Uncured Silicone Rubber with PTFE Coated Fiberglass Carrier

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

Material Notes:

Description: 8 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-T20-99710W008-0008-0203-mm-Uncured-Silicone-Rubber-with-PTFE-Coated-Fiberglass-Carrier.php

Physical Properties	Metric	English	Comments
Density	1.60 g/cc	0.0578 lb/in ³	Silicone Property; Arlon SQA-TMS-024
Thickness	25.4 microns	1.00 mil	Liner
	76.2 microns	3.00 mil	Carrier
	203 microns	8.00 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	0.0000689 GPa	0.0100 ksi	ASTM D1002
Shear Strength	2.62 MPa	380 psi	Lap Shear Strength; 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
	1.35 W/m-K	9.37 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
Dielectric Strength	39.4 kV/mm	1000 kV/in	ASTM D149

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/m2)	325	Arlon SQA-TMS-025

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