

Arlon Thermabond® R36200A008 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:

Design/Construction: Liner: FEP Product: Uncured Silicone Rubber Carrier: PTFE Coated Fiberglass Appearance: Blue silicone 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-R36200A008-0008-0203-mm-Uncured-Silicone-Rubber-with-PTFE-Coated-Fiberglass-Carrier.php

Physical Properties	Metric	English	Comments
Density	1.40 g/cc	0.0506 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	60	60	Silicone Property; ASTM D2240
Tensile Strength	5.17 MPa	750 psi	Silicone Property; ASTM D412
Elongation at Break	450 %	450 %	Silicone Property; ASTM D412
Poissons Ratio	0.50	0.50	Approximately, Silicone Property
Shear Strength	5.86 MPa	850 psi	Lap Shear Strength; ASTM D1002

Thermal Properties	Metric	English	Comments
CTE, linear	280 µm/m-°C	156 µin/in-°F	Silicone Property; ASTM E 831
Specific Heat Capacity	0.990 J/g-°C	0.237 BTU/lb-°F	E 1461-01
Thermal Conductivity	0.330 W/m-K	2.29 BTU-in/hr-ft ² -°F	Silicone Property; ASTM E 1530
	0.330 W/m-K	2.29 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	<= -100 °C	<= -148 °F	Silicone Property; ASTM D3418

Thermal Properties	Metric	English	Comments
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Electrical Properties	Metric	English	Comments
Dielectric Constant	3.3 @Frequency 1.00e+6 Hz	3.3 @Frequency 1.00e+6 Hz	D _k , Silicone Property; IPC TM 650-2.5.5.3
Dielectric Strength	43.3 kV/mm	1100 kV/in	ASTM D149
Dissipation Factor	0.0046 @Frequency 1.00e+6 Hz	0.0046 @Frequency 1.00e+6 Hz	D _f , Silicone Property; IPC TM 650-2.5.5.3

Processing Properties	Metric	English	Comments
Cure Time	15.0 min @Pressure >=0.689 MPa, Temperature 121 °C	0.250 hour @Pressure >=100 psi, Temperature 250 °F	Recommended Cure Cycle
Shelf Life	3.00 Month @Temperature 4.44 - 10.0 °C	3.00 Month @Temperature 40.0 - 50.0 °F	From date of manufacture

Descriptive Properties	Value	Comments
Color	Blue	
Total Product Weight (g/m2)	250	Arlon SQA-TMS-025

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