

Aptek 2710A/B Low modulus silicone adhesive

Category : Polymer , Adhesive , Thermoset , Silicone

Material Notes:

Low modulus silicone adhesive; -110°C to 260°C operating range; Low outgassing/space grade; Electrostatically Discharging (ESD) APTEK 2710-A/B is a two component, black, low modulus, thixotropic, silicone adhesive displaying very low temperature flexibility and good physical strength properties. APTEK 2710-A/B has been designed to fully cure at room temperature and can be accelerated with a brief low temperature cure. This 100% solid system has been manufactured with highly pure resins to minimize the occurrence of ionic contamination without outgassing during cure or service. Utilizes silicone technology providing very low Tg for excellent low temperature performance; Convenient 1:1 PBW or PBV mix ration for easy handling - ideal for cartridge dispensers/repair kits; Very flexible/low modulus over wide temperature range to absorb stress build-up during thermal cycling; Very good adhesion to various substrates when used in conjunction with APTEK P-105 primer. Information provided by Aptek Laboratories, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Aptek-2710AB-Low-modulus-silicone-adhesive.php

Physical Properties	Metric	English	Comments
Density	1.19 g/cc	0.0430 lb/in ³	A Component; ASTM D1475
	1.19 g/cc	0.0430 lb/in ³	B Component; ASTM D1475
Outgassing - Total Mass Loss	0.60 %	0.60 %	Cured property; at 10E-6 torr; ASTM D595
Collected Volatile Condensable Material	0.060 %	0.060 %	Cured property; at 10E-6 torr; ASTM D595

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	35	35	Cured property; ASTM D1002
Adhesive Bond Strength	1.90 MPa	275 psi	Al-to-Al Lap Shear; Cured property; bondline thickness on primed aluminum panels; ASTM D1002

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	260 °C	500 °F	
Minimum Service Temperature, Air	-110 °C	-166 °F	
Glass Transition Temp, Tg	-108 °C	-162 °F	Cured property; TMA
Flash Point	>= 150 °C	>= 302 °F	A Component; ASTM D92
	>= 150 °C	>= 302 °F	B Component; ASTM D92

Electrical Properties	Metric	English	Comments
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Volume Resistivity Electrical Properties	200000 ohm-cm Metric	200000 ohm-cm English	Cured property; HSC 51113 Comments
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Processing Properties	Metric	English	Comments
Processing Temperature	65.0 °C	149 °F	Cure 1 hrs
	150 °C	302 °F	Cure 0.25 hrs

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