

Aptek 2712-A/B Very low stress silicone adhesive

Category : Polymer , Adhesive , Thermoset , Silicone , Silicone, RTV, Adhesive/Sealant Grade

Material Notes:

Very low stress silicone adhesive; -110°C to 260°C operating range; Low outgassing/space grade APTEK 2712-A/B is a two component, white, very soft, thixotropic, electrically insulative, silicone adhesive displaying excellent flow temperature flexibility and unusually high physical strength properties. APTEK 2712-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. Very flexible/low modulus over wide temperature range to absorb stress build-up during thermal cycling; Convenient 1:1 PBW or PBV mix ratio for easy handling-ideal for cartridge dispensers/repair kits; Very good adhesion to various substrates when used in conjunction with APTEK P-107 primer; Long work life, short cure cycle options for improved productivity on large area bonding applications. APTEK 2712A is a white silica-filled silicone resin blend. APTEK 2712B is a translucent silica-filled silicone resin blend. Information provided by Aptek Laboratories, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Aptek-2712-AB-Very-low-stress-silicone-adhesive.php

Physical Properties	Metric	English	Comments
Density	1.15 g/cc	0.0415 lb/in ³	A Component; ASTM D1475
	1.15 g/cc	0.0415 lb/in ³	B Component; ASTM D1475
Outgassing - Total Mass Loss	0.55 %	0.55 %	at 10E-6 torr; ASTM E595
Collected Volatile Condensable Material	0.050 %	0.050 %	at 10E-6 torr; ASTM E595

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	16	16	Cured property; ASTM D2240
Tensile Strength, Ultimate	4.14 MPa	600 psi	Cured; ASTM D638
	@Thickness 1.47 mm	@Thickness 0.0580 in	
Elongation at Break	700 %	700 %	Cured property; ASTM D638
Adhesive Bond Strength	2.76 MPa	400 psi	Al-to-Al Lap Shear; Cured property; 5 mil bondline thickness on primed aluminum panels; ASTM D1002
Tear Strength	23.7 kN/m	135 pli	ASTM D624

Thermal Properties	Metric	English	Comments
CTE, linear	54.0 µm/m-°C	30.0 µin/in-°F	Cured property; alpha 1
	@Temperature 20.0 °C	@Temperature 68.0 °F	
	235 µm/m-°C	131 µin/in-°F	

Thermal Properties	Metric @ Temperature 20.0 °C	English @ Temperature 68.0 °F	Cured property; alpha 2 Comments
Maximum Service Temperature, Air	260 °C	500 °F	
Minimum Service Temperature, Air	-110 °C	-166 °F	
Glass Transition Temp, Tg	-110 °C	-166 °F	Cured property; Perkin Elmer TMS-2
Flash Point	>= 150 °C	>= 302 °F	A Component; ASTM D92
	>= 150 °C	>= 302 °F	B Component; ASTM D92

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	Cured property; ASTM D257
Dielectric Strength	13.8 kV/mm @Thickness 6.35 mm	350 kV/in @Thickness 0.250 in	Cured; ASTM D149

Processing Properties	Metric	English	Comments
Processing Temperature	25.0 °C	77.0 °F	Cure Time not defined
	65.0 °C	149 °F	Cure 1 hrs
	100 °C	212 °F	Cure 0.5 hrs.

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