

Aptek 2506-A/B Room temperature curing, low modulus urethane conformal coating

Category : Polymer , Adhesive , Thermoset , Polyurethane, TS , Thermoset Polyurethane, Adhesive

Material Notes:

Room temperature curing, low modulus urethane conformal coating APTEK 2506-A/B is an unfilled, two component, electrically insulating, transparent, flexible urethane coating system designed for the encapsulation and protection of electrical/electronic components mounted on printed circuit boards. Capable of curing at RT, rapid cure with low/moderate heat cycle; Non-TDI based for safety; Excellent reversion resistance for good physical stability under high heat and humidity environments; Tg below -55°C for excellent low temperature cycling, storage and performance; Excellent substrate adhesion; superior to silicones; Fluoresces under black-light (UV) APTEK 2506-A is a blue unfilled polyol resin. APTEK 2506-B is a amber colored organic isocyanate which make cause severe eye and skin irritation with direct contact..Information provided by Aptek Laboratories, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Aptek-2506-AB-Room-temperature-curing-low-modulus-urethane-conformal-coating.php

Physical Properties	Metric	English	Comments
Density	0.900 g/cc	0.0325 lb/in ³	A Component; ASTM D1475
	1.22 g/cc	0.0441 lb/in ³	B Component; ASTM D1475
Viscosity	90 cP	90 cP	A Component; ASTM D1824

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	88	88	Cured property; ASTM D2240
Tensile Strength, Ultimate	12.4 MPa	1800 psi	Cured property; ASTM D412
Elongation at Break	275 %	275 %	Cured property; ASTM D412

Thermal Properties	Metric	English	Comments
CTE, linear	90.5 µm/m-°C	50.3 µin/in-°F	Cured property; alpha 1; JMTP P200
	@Temperature 20.0 °C	@Temperature 68.0 °F	
	197 µm/m-°C	109 µin/in-°F	Cured property; alpha 2; JMTP P200
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Glass Transition Temp, Tg	-60.0 °C	-76.0 °F	Cured property; JMTP P200
Flash Point	10.0 °C	50.0 °F	A Component; ASTM D92
	200 °C	392 °F	B Component; ASTM D92

Optical Properties	Metric	English	Comments
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Optical Properties	Metric	English	Comments
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Electrical Properties	Metric	English	Comments
Volume Resistivity	8.50e+15 ohm-cm	8.50e+15 ohm-cm	Cured property; ASTM D257
Dielectric Constant	3.4 @Frequency 1000 Hz	3.4 @Frequency 1000 Hz	Cured property; ASTM D150
Dielectric Strength	>= 59.1 kV/mm @Thickness 0.0508 mm	>= 1500 kV/in @Thickness 0.00200 in	Cured; ASTM D149
Dissipation Factor	0.024 @Frequency 1000 Hz	0.024 @Frequency 1000 Hz	Cured property; ASTM D150

Processing Properties	Metric	English	Comments
Processing Temperature	25.0 °C	77.0 °F	Cure 7 days
	65.0 °C	149 °F	Cure 1 hr
	85.0 °C	185 °F	Cure 30 min.

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