

Aptek 2503R-A/B Premeasured conformal urethane coating repair kit

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

Material Notes:

APTEK 2503-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. Ideal for repair-ready-to-use; Fully compatible with APTEK 2503-A/B conformal coating as well as other commercially available urethane coatings; Excellent reversion resistance for good physical stability under high heat and humidity environments; Tg below -70°C for excellent low temperature cycling, storage and performance; Excellent substrate adhesion, superior to silicones; Exceeds NASA outgassing requirements for high vacuum environments; Fluoresces under black-light (UV) to facilitate QC inspection of coating coverage of repaired components/substrates. APTEK 2503R-A is an unfilled polyol resin containing solvent and is thus considered a flammable liquid and should be treated with caution. . APTEK 2503R-B is an organic isocyanate and is safe to handle when used properly. . Information provided by Aptek Laboratories, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Aptek-2503R-AB-Premeasured-conformal-urethane-coating-repair-kit.php

Physical Properties	Metric	English	Comments
Outgassing - Total Mass Loss	0.187 %	0.187 %	Cured property; at 10E-6 torr; ASTM E595
Collected Volatile Condensable Material	0.0020 %	0.0020 %	Cured property; at 10E-6 torr; ASTM E595

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	88	88	Cured property; ASTM D2240
Tensile Strength, Ultimate	19.3 MPa	2800 psi	Cured property; ASTM D412
Elongation at Break	525 %	525 %	Cured property; ASTM D412

Thermal Properties	Metric	English	Comments
CTE, linear	180 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	100 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	Cured property; alpha 1; JMTP P200
	@Temperature 20.0 $^\circ\text{C}$	@Temperature 68.0 $^\circ\text{F}$	
Glass Transition Temp, Tg	-74.0 $^\circ\text{C}$	-101 $^\circ\text{F}$	Cured property; JMTP P200
Flash Point	10.0 $^\circ\text{C}$	50.0 $^\circ\text{F}$	A Component; ASTM D92
	≥ 150 $^\circ\text{C}$	≥ 302 $^\circ\text{F}$	B Component; ASTM D92

Optical Properties	Metric	English	Comments
Transmission, Visible	90 %	90 %	transparent; thickness not quantified

Processing Properties	Metric	English	Comments
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Processing Properties	Metric	English	Comments
	100 °C	212 °F	Cure 5 hrs
	125 °C	257 °F	Cure 2 hrs

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